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PTSD Trajectory, Comorbidity, and Utilization of Mental Health Services among National Guard Forces

PRINCIPAL INVESTIGATOR:

Robert J. Ursano

CONTRACTING ORGANIZATION:

Henry M. Jackson Foundation

Rockville, MD 20852

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14. ABSTRACT- This research will assess mental health and mental health service utilization over time among a representative sample of National Guard forces, within a multivariate causal framework taking into account life course experiences together with combat history, other military experience and civilian traumatic event experiences as determinants of mental health. We focus on the prevalence and correlates of PTSD and other mental illness and health service utilization, but also on the trajectories of PTSD and co-occurring psychopathology over time. The scope includes developing, piloting and implementing a structured survey for a random sample of National Guard Forces. Findings from analyses of all three waves of the survey will be disseminated to key stakeholders. To date, we have constructed a survey for initial data collection as well as subsequent waves that contains modules on (1) risk or protective factors for psychological morbidity over the life course (general traumas, psychological resources, life and family concerns), (2) mental health (depression, PTSD, emotional health history), (3) service utilization patterns (use of mental health resources). We have enrolled 1000 National Guard forces, and completed the baseline survey and two follow-up surveys. We have one manuscript under review, 1 nearly finalized, and 2 manuscripts under preparation. Results have been disseminated at national scientific conferences.					
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## INTRODUCTION

This work will assess mental health and mental health service utilization over time among a representative sample of the National Guard forces, within a multivariate causal framework that takes into account life course experiences and circumstances together with combat history, other military experience (e.g. humanitarian activity and activation for state missions) and civilian traumatic event experiences as determinants of mental health in this group. We focus here not only on documenting the prevalence and correlates of PTSD and other mental illness and health service utilization among these forces, but also on documenting the *trajectories* of PTSD and co-occurring psychopathology over time among these forces. Although there is a growing literature about the mental health and mental health needs of active duty military personnel, this would be the first study, as best we know, that has focused explicitly on the experience of the National Guard forces. For the reasons mentioned above, this group needs to be identified as a separate study population so that the special issues associated with their service can be examined. This study has implications for early intervention after exposure to traumatic events (including combat experiences and domestic deployment), training of the RC, and education of commanding officers and military leadership.

## BODY

### STATEMENT OF WORK

Task 1. To develop a structured survey instrument that will assess (a) factors throughout the lifecourse that may be risk or protective factors for psychological morbidity among National Guard forces, (b) mental health, and (c) service utilization patterns among National Guard forces.

Milestone: The final version of the survey instrument has been developed and contains: (a) risk or protective factors for psychological morbidity over the life course (e.g. modules on general traumas, psychological resources, life and family concerns), (b) mental health (e.g. modules on depression, PTSD, emotional health history) (c) service utilization patterns among National Guard force members (e.g. use of mental health resources). Please see Appendix 3 for a copy of the survey.

Task 2. To obtain final IRB approval from relevant local institutions (CU and USUHS) and Department of Defense.

Milestone: Final IRB approval was approved for the baseline survey from the original three institutions (UM, USUHS and DOD).

Task 3. To pilot test the instrument with a random sample of National Guard forces and modify the instrument as necessary to adequately reflect National Guard force experiences.

Milestone: The survey instrument has been piloted with a random sample of the National Guard forces and the instrument has been modified as necessary to adequately reflect National Guard force experience and shortened to reduce participant burden, and approved by DoD.

Task 4. To implement the survey among a randomly selected sample of 1,000 National Guard force members using a combination of telephone and web-based techniques.

Milestone: Participant population selected and baseline survey, N=1000 interviews completed.

Task 5. To analyze survey data and to produce reports that are accessible to military, civilian, and scientific audiences and to prepare first follow-up survey wave.

Milestone: We have one manuscript under review (See appendix 1) and are currently finalizing 2 additional manuscripts (See pgs. 8-21) for submission.

Task 6. To implement the first survey follow-up, re-contacting all persons in the original sample and administering the follow-up survey using telephone and web-based methods.

Milestone: Continuing IRB approval has been obtained from the current institutions (CU and USUHS and Department of Defense), and the first follow-up survey has been implemented and completed as of 15/11/2011. See Appendix 4 for a copy of the first follow-up survey.

Task 7. To analyze wave 2 survey data and to produce reports that are accessible to military, civilian, and scientific audiences and to prepare second follow-up survey wave.

Milestone: We are currently finalizing a manuscript examining the longitudinal sample (See appendix 2).

Task 8. To implement the second survey follow-up, recontacting all persons in the original sample and administering the follow-up survey using telephone and web-based methods.

Milestone: The second follow-up survey has been implemented, and was completed as of 01/11/2012. See Appendix 5 for a copy of the second follow-up survey.

Task 9. To complete whole cohort data analysis and to produce reports that are accessible to military, civilian, and scientific audiences. To disseminate results from the study to key stakeholders. Reports will be prepared and presented to organizations concerned with health of military personnel including the Assistant Secretary of Defense (National Guard Affairs), the Secretaries of the Army, Navy, and Air Force, the Surgeons General of the Army, Navy, and Air Force, the Chief of Staff of the Army, the Chief of Staff of the Air Force, the Chief of Naval Operations, the Commandant of the Marine Corps, the National Guard Bureau, and the Veteran's Administration.

Milestone: Final project report is completed herein; results have been disseminated at 2 national conferences - baseline results presented at ISTSS conference (2012), longitudinal results presented at American Public Health Association annual conference (2012); 2 finalized whole cohort analyses are in final stages of manuscript development; 1 academic paper featuring whole cohort analysis of the baseline sample is under review, and 1 manuscript examining the longitudinal sample is being finalized for submission; planned 3-wave longitudinal analyses will be conducted and disseminated both at national conferences and in manuscript form following cleaning and preparation of wave 3 data.

## MANUSCRIPTS UNDER PREPARATION

We summarize here several manuscripts under preparation that collectively present a summary of the data collected and plans for dissemination. Since, as previously discussed with US MOMRP, this project is a sister project with DOD W81XWH-08-2-0650 (PI: Ursano) that was concerned with National Guard soldiers, many of the following analyses were carried out on a dataset that combines both studies, capitalizing on both projects to yield insight that would be not possible from either study alone.

### **FINALIZED BASELINE ANALYSIS # 1 - *Overview of Mental Health in National Guard and Reserve Forces.***

#### METHODS

Our mental health measures of interest included deployment-related posttraumatic stress disorder (PTSD), any form of PTSD, and depression. To assess PTSD symptoms we used the PTSD checklist, a well-validated instrument, was modified to include questions about the duration of symptoms and functional impairment to assess all Diagnostic and Statistical Manual of Mental Disorders (DSM-IV edition) criteria for PTSD diagnosis. Symptoms of PTSD were asked with respect to the self-selected “worst” potentially traumatic event that occurred during their most-recent deployment as well as the “worst” event they ever experienced outside of their most-recent deployment. To positively have a PTSD symptom, the participant had to report that the symptom occurred at least “some of the time” (3 on a scale from 1 to 5). According to the DSM-IV, we classified individuals with PTSD if they had experienced fear, helplessness or horror as result of traumatic event (criterion A1 and A2); at least 1 symptom of re-experiencing the traumatic event (criterion B); at least 3 symptoms of avoidance or numbing (criterion C); at least 2 symptoms of hypervigilance (criterion D); at least a one month duration of these symptoms (criterion E); and significant social or functional impairment as a result of these symptoms (criterion F). Deployment-related PTSD refers to PTSD cases that resulted from the “worst” traumatic event that occurred during participants’ most-recent deployment, while non-deployment related PTSD refers to all PTSD cases from an event outside of this deployment.

To assess depression, we used the Patient Health Questionnaire (PHQ-9), a validated instrument. We modified the questionnaire to include questions about timing and duration of symptoms. We classified individuals with depression as those who had at least two symptoms from the PHQ-9, 1 of which had to be anhedonia. In addition, participants had to have the symptoms concurrently for at least 1 month.

A clinical appraisal of the same modified PCL and the PHQ-9 for depression in a sample of National Guard soldiers demonstrated that the instruments had excellent specificity. Those who were did not have either PTSD or depression were unlikely to be misdiagnosed.

*Statistical Analysis.* We first examined the distribution of demographics and military characteristics of our sample stratified by the seven service branches (Air Reserve, Army Reserve, Air National Guard, Army National Guard, Marine Reserve and Navy Reserve). We compared the distribution of these characteristics across the military branches using a chi-square test or Fischer’s test where appropriate. Second, we examined the prevalence of deployment-related PTSD, non-deployment related PTSD, history of any PTSD, and depression among the separate service branches. We used chi-square tests to see if the distribution of the prevalences differed by branch.

## RESULTS

**Table 1** lists the number and distribution of selected characteristics in the total sample as well as within each service branch. The majority of soldiers were male (80.7%), white (79.8%), between the ages of 18 and 35 (59.9%), and married (53.1%). In our sample, the Army National Guard had the highest representation (43.4%) and the Marine reservists the smallest (4.4%). The majority of soldiers were enlisted (76.4%), and previously deployed (74.4%), but not more than once. Among those who had been deployed, the majority of soldiers was deployed to an area of conflict (58.1%) but did not report participating in active combat (67.3%). There were many differences in the distributions of selected characteristics across service branches. Women were least likely to serve in the Marine Reserve (7.7%) and were most likely to serve in the Army Reserve (27.6%). Air Reservists had the highest proportion of soldiers aged 35 or higher (63.6%) and Marine Reservists had the highest distribution of soldiers under the age of 35 (84.9%). While all branches were majority white, the Army Reserve had the highest distribution of non-whites (black 20.6% and other 9.8%). Air Reserve (66.1% and 53.4%) and Navy Reserve (65.3% and 50.7%) had the highest percent of soldiers making more than 60,000 dollars per year and receiving a college or graduate degree, respectively. The Marine Reserve had the highest proportion of never-married soldiers (53.6%). A higher proportion of Marine Reservists also experienced more than 7 types of traumatic events in their lifetime (61.9%) compared to other service branches. Within all service branches, at least 70% of soldiers had deployment experience; the Navy Reserve had the highest proportion at 78.5%. Among those with deployment experience, Marine Reservists had the highest proportion of most recent deployment to an area of conflict (79.7%) and participation in active combat (49.2%). In comparison, among those who have been deployed, the Air National Guard had the smallest proportion most recently deployed to an area of conflict (28.5%) with 10.3% participating in active combat.

**Table 2** lists the number and prevalence of each psychopathology (deployment-related PTSD, total PTSD and depression) for the total sample and then across the service branches. Overall, 7.0% of those who have been deployed have had a history of deployment-related PTSD. In the total sample 11.8% have ever had PTSD in general and 21.3% have ever had some form of depression. When we compared prevalences across service branches, the presence of PTSD from most recent deployment was comparable across all service branches. However, the Army National Guard were most likely to have past month deployment-related PTSD (6.3%), while the Air Reservists were least likely (0.8%,  $p\text{-value} = 0.01$ ). When we examined the total level of PTSD (not just deployment-related PTSD), the only differences across the branches was reporting PTSD ever in their lifetime. Army National Guard members were most likely to report PTSD ever in their lifetime (14.4%) and Air National Guard members were least likely (4.6%,  $p\text{-value} < 0.01$ ). When we examined the distribution of depression across the service branches, the Marine Reserve had the highest prevalence of ever having depression (28.6%), depression within the past year (17.9%) and depression within the past month (6.0%).



Table 1. Distribution (number(%)) of selected characteristics for the total sample as well as within each service branch.

Characteristics	Total N(%)	Air Reserve N(%)	Air National Guard N(%)	Army Reserve N(%)	Army National Guard N(%)	Marine Reserve N(%)	Navy Reserve N(%)	p-value*
Gender								
Male	1618 (80.7)	127 (72.1)	170 (79.2)	368 (72.4)	654 (86.6)	155 (92.3)	142 (79.7)	<0.01
Female	385 (19.3)	49 (27.9)	45 (20.8)	140 (27.6)	101 (13.4)	13 (7.7)	36 (20.3)	
Age								
18-24	454 (22.4)	19 (11.2)	40 (19)	95 (18.9)	203 (27.2)	79 (47.9)	18 (10.3)	<0.01
25-34	648 (32.8)	43 (25.3)	69 (32.7)	171 (34.0)	262 (35.0)	61 (37)	41 (23.1)	
35-44	526 (27.1)	51 (30.1)	65 (30.8)	143 (28.4)	188 (25.1)	17 (10.3)	62 (35.3)	
45+	348 (17.7)	57 (33.5)	37 (17.5)	94 (18.7)	95 (12.6)	8 (4.8)	55 (31.3)	
Race								
White (non-Hispanic)	1425 (79.8)	127 (81.4)	173 (86.2)	313 (69.7)	558 (82.5)	115 (79.9)	137 (84.5)	<0.01
Black (non-Hispanic)	233 (12.8)	18 (11.5)	13 (6.4)	93 (20.6)	76 (11.2)	19 (13.2)	14 (8.7)	
Other	134 (7.4)	11 (7.1)	15 (7.4)	44 (9.8)	42 (6.2)	10 (6.9)	11 (6.8)	
Income								
<=60,000	1015 (52.6)	58 (33.9)	100 (47.6)	248 (50.3)	449 (61.5)	98 (59.4)	60 (34.7)	<0.01
>60,000	930 (47.4)	113 (66.1)	110 (52.4)	246 (49.7)	281 (38.5)	67 (40.6)	112 (65.3)	
Education								
H.S or less	359 (18.3)	19 (10.8)	17 (7.9)	86 (17)	183 (24.3)	33 (19.8)	21 (11.9)	<0.01
Some college	871 (43.6)	63 (35.8)	90 (42.1)	206 (40.8)	356 (47.4)	89 (53.3)	66 (37.4)	
College/Graduate degree	763 (33.0)	94 (53.4)	107 (50)	213 (42.2)	212 (28.2)	45 (26.9)	90 (50.7)	
Marital status								
Married	1058 (53.1)	110 (63.3)	124 (57.6)	264 (52.1)	375 (49.8)	73 (43.5)	111 (62.3)	<0.01
Formerly married	245 (12.7)	22 (12.6)	29 (13.5)	73 (14.5)	95 (12.7)	5 (3.0)	19 (10.7)	
Never married	693 (34.2)	42 (24.1)	62 (28.9)	169 (33.4)	282 (37.5)	90 (53.6)	48 (20.0)	
Types of traumatic events experienced								
0	107 (5.4)	9 (5.1)	21 (9.7)	31 (6.1)	34 (4.5)	5 (3.0)	7 (3.9)	<0.01
1-3	439 (21.8)	41 (23.3)	74 (34.4)	107 (21.1)	137 (18.1)	30 (17.9)	50 (28.2)	

4-6	380 (19.0)	48 (27.3)	48 (22.3)	81 (15.9)	136 (18)	29 (17.3)	37 (20.8)	
>=7	1077 (53.8)	78 (44.3)	72	289 (56.9)	448 (59.4)	104 (61.9)	84 (47.1)	
Rank								
Officer	472 (23.6)	66 (37.5)	36 (16.9)	145 (28.6)	142 (18.9)	22 (13.1)	59 (33)	<0.01
Enlisted	1527 (76.4)	110 (62.5)	178 (83.1)	363 (71.4)	610 (81.1)	146 (86.9)	119 (67)	
Deployment experience								
No	514 (25.6)	49 (28.5)	48 (22.6)	150 (29.6)	181 (24.0)	47 (28.1)	38 (21.5)	0.09
Yes	1478 (74.4)	123 (71.5)	164 (77.4)	357 (70.4)	573 (76.0)	120 (71.9)	139 (78.5)	
Number of deployments								
0-1	1091 (54.3)	86 (50.0)	88 (41.5)	304 (60.0)	407 (54.0)	107 (64.1)	97 (54.7)	<0.01
2-3	599 (30.7)	42 (24.4)	53 (25.0)	152 (30.0)	263 (34.9)	39 (23.4)	49 (27.8)	
4+	302 (15.1)	44 (25.6)	71 (33.5)	51 (10.1)	84 (11.1)	21 (12.6)	31 (17.6)	
Most recent deployment location								
Non conflict	616 (41.9)	83 (69.2)	114 (71.5)	159 (44.8)	148 (26)	24 (20.3)	87 (62.8)	<0.01
Conflict zone	845 (58.1)	37 (30.8)	45 (28.5)	195 (55.2)	421 (74)	94 (79.7)	52 (37.2)	
Active combat participation on most recent deployment								
No	983 (67.3)	109 (89.3)	142 (89.7)	253 (72.0)	305 (53.9)	61 (50.8)	111 (82.2)	<0.01
Yes	470 (32.7)	13 (10.7)	16 (10.3)	98 (28.0)	260 (46.1)	59 (49.2)	24 (17.8)	
<b>Total</b>		<b>176</b>	<b>215</b>	<b>508</b>	<b>755</b>	<b>168</b>	<b>178</b>	

\* Chi-square test p-value indicates whether the null hypothesis that there are no significant differences across branches can be rejected

Table 2. Prevalence (number and percent) of psychopathology for the total sample and within each service branch.

Psychopathology	Total N(%)	Air Reserve N(%)	Air National Guard N(%)	Army Reserve N(%)	Army National Guard N(%)	Marine Reserve N(%)	Navy Reserve N(%)	p- value**
Deployment-related PTSD*								
Lifetime	102 (7.0)	8 (6.5)	3 (1.8)	23 (6.4)	48 (8.4)	8 (6.7)	12 (8.7)	0.06
Current year	74 (5.1)	4 (3.2)	3 (1.8)	18 (5.0)	38 (6.7)	6 (5.0)	5 (3.6)	0.10
Current month	65 (4.5)	1 (0.8)	2 (1.2)	15 (4.2)	36 (6.3)	6 (5.0)	5 (3.6)	0.01
Total PTSD***								
Lifetime	235 (11.8)	18 (10.3)	10 (4.6)	53 (10.4)	109 (14.4)	20 (11.9)	25 (14.1)	<0.01
Current year	102 (5.1)	8 (4.6)	5 (2.3)	24 (4.7)	46 (6.1)	9 (5.4)	10 (5.6)	0.28
Current month	80 (4.0)	5 (2.9)	4 (1.9)	22 (4.3)	35 (4.7)	8 (4.8)	6 (3.4)	0.41
Depression								
Lifetime	430 (21.3)	29 (16.5)	33 (15.4)	115 (22.6)	176 (23.2)	48 (28.6)	29 (16.3)	0.01
Current year	266 (13.2)	17 (9.7)	13 (6.1)	66 (13.0)	121 (15.9)	30 (17.9)	19 (10.7)	<0.01
Current month	96 (4.8)	8 (4.6)	2 (0.9)	27 (5.3)	44 (5.8)	10 (6.0)	5 (2.8)	0.03
<b>Total</b>		<b>176</b>	<b>215</b>	<b>508</b>	<b>755</b>	<b>168</b>	<b>178</b>	
<b>Total ever deployed</b>	<b>1476</b>	<b>123 (71.5)</b>	<b>164 (77.4)</b>	<b>357 (70.4)</b>	<b>573 (76.0)</b>	<b>120 (71.9)</b>	<b>139 (78.5)</b>	

Note: Percentages may not add up to 100% due to missing values. All statistics are weighted to account for survey sampling design.

\*Frequency is among those who have deployment experience

\*\*Chi-square test p-value indicates whether the null hypothesis that there are no significant differences across branches can be rejected.

\*\*\*Total PTSD includes both deployment-related and non-deployment-related PTSD

## **FINALIZED BASELINE ANALYSIS # 2 - *Gender And Military Authority: The Impact Of Gender And Military Rank On Risk Of Mental Health Problems.***

### **METHODS**

Each participant completed a 50-minute telephone interview that assessed participants' demographics, military history and mental health status. We categorized their self-reported racial background as white, black, or other. We categorized participants' reported age into four groups: 17-24, 25-34, 35-44, and 45 or older, with the youngest group being held as the reference. Self-reported income was dichotomized as pre-tax household income less than or equal to \$60,000 versus greater than \$60,000. Reported marital status was coded as married, divorced or separated, and never married. For military history, Reserve and National Guard divisions of the Army and Air Force were grouped into two categories, Army and Air Force, while Marine Reserves and Navy Reserves were kept separate. Participants reporting military pay grades of Commissioned or Warrant Officer-class were combined into a single Officer category, while participants reporting Enlisted-class pay grades were categorized as Enlisted. Participants reported the location of their most recent deployment, and we categorized these locations as either a conflict area or not a conflict area. Four countries in particular years were considered conflict areas. These include Afghanistan, Iraq, Kosovo, and Kuwait. Participants reported whether or not they had participated in active combat operations as a member of a combat unit during their most recent deployment.

We assessed whether participants experienced any of 25 potentially traumatic events (PTE) in their lifetime. Participants also reported whether or not each PTE they experienced was related to their most-recent deployment. PTSD was assessed using the 17-item PTSD Checklist and symptoms were measured in relation to the self-selected worst PTE that occurred during their most-recent deployment and outside of this deployment. Participants were designated as having PTSD from events that purportedly triggered PTSD according to the DSM-IV criteria, that is if they reported at least one symptom of intense fear or hopelessness (criterion A2), at least one symptom of intrusion (criterion B), at least three of avoidance (criterion C), at least two of hyper-arousal (criterion D), if they reported having these symptoms for at least one month (criterion D), and if they reported that these symptoms were at least moderately distressing or made normal life functioning at least very difficult (criterion F). The years in which their worst most-recent-deployment-related PTE and worst PTE unrelated to this deployment occurred were also reported.

Depression was assessed using the Patient Health Questionnaire-9 (PHQ-9). If participants responded that they had been bothered by two or more of the nine symptoms for more than half the days during a period of at least two weeks in their lifetime, participants were designated as having a lifetime history of depression. If participants reported that the most recent time any of their reported symptoms occurred was within the last year, participants were designated as having had depression within the past year.

*Statistical analyses.* Data were assigned post-stratification weights adjusting the sample to be representative by branch of the national RNG population in in September 2009, according to national statistics retrieved from the Defense Manpower Data Center. Weights for each participant's observation were calculated by dividing their military branch's proportion in the national population by their branch's proportion in our sample. All bivariate and multivariate associations were estimated using weighted logistic regression models. Participants with missing values were excluded from the relevant analyses (15.6% of ever-deployed participants).

All analyses were conducted in R© version 2.13.0 (R Development Core Team, 2011), and the “survey” package was used to conduct all weighted analyses.

First, descriptive statistics were examined by deployment status among our full baseline sample. Un-weighted frequencies were examined alongside weighted proportions. Second, we examined weighted bivariate associations of demographic and military experience characteristics with PTSD among those who had experienced at least one most-recent-deployment-related PTE, and with depression in past year among those who had been deployed. Third, we estimated the weighted associations of gender with PTSD among those who had experienced at least one most-recent-deployment-related PTE, and gender with depression among those who had been deployed, each adjusted by demographic and military experience characteristics. Fourth, we assessed weighted multiplicative statistical interactions of gender and military authority in their association with PTSD among those who had experienced at least one most-recent-deployment-related PTE, and with past-year depression among those who had been deployed.

## RESULTS

Table 1 provides a description of participant characteristics by deployment history. The mean age of our sample was 33.3 year; 19% of participants were women and 80% were white. 58% had ever been deployed to a conflict area, and 33% had participated in active combat operations. Those who had been deployed were less likely to be female (14%) than those who had not been deployed (34% female). Persons who had been deployed were more likely to have household incomes greater than \$60,000 (52%) than those who had never been deployed (35%).

Table 2 shows bivariate associations between participant characteristics with PTSD and with depression in past year. Only having been deployed to a conflict area, having participated in active combat, and having had PTSD before one’s most-recent-deployment were statistically significantly associated with PTSD, and all of these associations were positive. As with PTSD, having been deployed to a conflict area, participated in active combat operations, or having had depression before one’s most recent deployment each were positively and statistically significantly associated with having depression in the past year. In addition, being in the Army or Marines (vs. Air Force or Navy Reserve), 45 years or older, divorced/separated or never married (vs. married), enlisted (vs. officer), or living in a household with a total income greater than \$60,000 per year were statistically significantly associated with being more likely to report depression in the past year.

Table 3 shows that women were more likely to have PTSD related to their most recent deployment, compared to men (OR 2.73, 95% CI 1.38-5.39), after adjusting for race/ethnicity, age, income, marital status, military branch, military authority, deployment to conflict area, active combat participation, and history of psychopathology. Military authority was not associated with PTSD. Including an interaction term between gender and military authority in Model 2, both the terms for gender and the interaction between gender and military authority were statistically significantly associated with PTSD, though not the main term for military authority itself. Using male officers as the reference category, the OR of PTSD for enlisted males in our sample is 1.39, for enlisted females is 1.94, and for female officers is 7.33 (95% CI 2.58–20.85).

Table 4 shows multivariable associations with depression in past year. Again adjusting for those covariates explored in the bivariate analyses, in Model 1 we find no statistically significant association between either gender or military authority with depression in past year.

However, when adding an interaction between gender and military authority in Model 2, we find statistically significant associations for gender and the interaction between gender and military authority with depression in past year, but again, not for the primary military authority term itself. Setting the reference to male officers, the OR of PTSD for enlisted males is 0.99, for enlisted females is 0.43, and for female officers is 4.31 (95% CI 1.11–16.78).

**TABLE 1: Participant Characteristics by Deployment Experience Among RNG Wave 1**

Participant Characteristics		Total Sample (N=1992)		Have never been (N=514) 25.6%		Have deployment (N=1478) 74.4%		p-value
		N	%	N	%	N	%	P.val
Gender	Male	1609	80.7	343	66.1	1266	85.8	<0.001
	Female	383	19.3	171	33.9	212	14.2	
	Total	1992	100.0	514	100.0	1478	100.0	
Branch	Air Force	384	19.4	97	19.1	287	19.5	0.521
	Army	1261	68.0	331	69.2	930	67.6	
	Marine Corps	167	4.4	47	4.8	120	4.2	
	Navy Reserve	177	8.2	38	6.9	139	8.6	
	Total	1989	100.0	513	100.0	1476	100.0	
Race	White/Non-	1418	79.8	335	74.0	1083	81.8	0.002
	Black/Non-	231	12.8	75	16.3	156	11.6	
	Other	133	7.4	43	9.7	90	6.6	
	Total	1782	100.0	453	100.0	1329	100.0	
Age	17-24	454	22.5	253	49.2	201	13.2	<0.001
	25-34	647	32.9	139	27.5	508	34.8	
	35-44	523	27.1	67	13.4	456	31.8	
	>=45	343	17.5	52	9.9	291	20.2	
	Total	1967	100.0	511	100.0	1456	100.0	
Income	<=60,000	1013	52.7	320	65.3	693	48.5	<0.001
	>60,000	923	47.3	174	34.7	749	51.5	
	Total	1936	100.0	494	100.0	1442	100.0	
Marital Status	Married	1052	53.1	178	34.5	874	59.5	<0.001
	Divorced/Separ	243	12.7	51	10.1	192	13.5	
	Never married	691	34.2	284	55.4	407	27.0	
	Total	1986	100.0	513	100.0	1473	100.0	
Military Authority	Officer	470	23.7	91	18.0	379	25.6	<0.001
	Enlisted	1518	76.3	421	82.0	1097	74.4	
	Total	1988	100.0	512	100.0	1476	100.0	
Deployment location	Not deployed to	616	41.9	--	--	616	41.9	
	Deployed to	845	58.1	--	--	845	58.1	
	Total	1461	100.0	--	--	1461	100.0	
Active combat participation	No	983	67.3	--	--	983	67.3	
	Yes	470	32.7	--	--	470	32.7	
	Total	1453	100.0	--	--	1453	100.0	

Note: P-values are from Chi-square tests for differences in proportions by deployment status; Percentages are weighted to be nationally representative of the Air Force Reserve and National Guard, and the Army Reserve and National Guard; Frequencies are unweighted; Branch categories are Air (Air Force Reserves and Air Force National Guard) and Army (Army Reserves and Army National Guard); Officers include both commissioned and warrant officers; For a list of countries and years considered as "Deployed to conflict area", see Appendix 2.

**TABLE 2: Bivariate Associations Between Demographic and Military Characteristics and Mental Illness Among RNG Wave 1 Participants Who Have Ever Been Deployed (n=1240)**

Variable	Value	PTSD Related to Most OR 95% CI		Depression in Past OR 95% CI	
Gender	Male	--	--	--	--
	Female	1.32	0.72-2.43	1.23	0.80-1.90
Branch	Air Force	--	--	--	--
	Army	2.03	0.99-4.18	2.04	1.26-3.33
	Marine Corps Reserve	1.65	0.57-4.77	2.59	1.33-5.03
	Navy Reserve	1.98	0.74-5.28	1.24	0.59-2.62
Race	White/Non-Hispanic	--	--	--	--
	Black/Non-Hispanic	1.11	0.54-2.30	0.86	0.51-1.46
	Other	1.07	0.42-2.76	0.85	0.42-1.71
Age	17-24	--	--	--	--
	25-34	1.98	0.77-5.06	0.64	0.40-1.02
	35-44	2.33	0.92-5.92	0.62	0.39-1.01
	>=45	2.14	0.79-5.78	0.45	0.25-0.79
Income	<=60,000	--	--	--	--
	>60,000	1.29	0.80-2.06	0.37	0.26-0.52
Marital Status	Married	--	--	--	--
	Divorced/Separated	1.96	1.05-3.64	2.40	1.52-3.77
	Never married	1.04	0.60-1.82	2.11	1.46-3.03
Military Authority	Officer	--	--	--	--
	Enlisted	1.13	0.66-1.93	2.31	1.48-3.59
Deployment location	Not deployed to conflict area	--	--	--	--
	Deployed to conflict area	2.48	1.44-4.27	1.47	1.05-2.07
Active combat participation	No	--	--	--	--
	Yes	3.36	2.09-5.39	1.64	1.18-2.28
PTSD before most-recent-	No	--	--	--	--
	Yes	5.22	2.36-11.54	--	--
Depression before most-recent-	No	--	--	--	--
	Yes	--	--	11.77	4.47-30.99

Note: 'PTSD Related to Most Recent Deployment' refers to reporting Post-Traumatic Stress Disorder (PTSD) criteria consistent with a PTSD diagnosis in relation to an event related to a participant's most-recent deployment (most-recent-deployment); 'Depression in Past Year' refers to reporting symptoms of depression within 12 months prior to the date of interview; In 'Branch', Air includes both Air Force Reserves and Air Force National Guard, while Army includes both Army Reserves and Army National Guard; Officers include both commissioned and warrant officers; Combat participation refers to active combat participation during the participant's most recent deployment; For a list of events qualifying as potentially traumatic events related to a participant's most-recent deployment, see Appendix 1; For a list of countries and years idered as "Deployed to conflict area", see Appendix 2; "PTSD before most-recent-deployment" refers to "PTSD before most-recent-deployment".



**TABLE 3: Risk of Deployment-Related PTSD Among RNG Wave 1 Participants who Experienced One or More Potentially Traumatic Events Related to Their Most Recent Deployment (N=847)**

Variable	Value	Sample Characteristics		Model 1			Model 2		p-value
		N	%	OR	95% CI	Beta	OR	95% CI	
Gender	Male	64	8.6	--	--	--	--	--	--
	Female	14	14.9	2.7	1.38-5.39	1.99	Not shown	Not shown	<0.001
Branch	Air Force	9	7.9	--	--	--	--	--	
	Army	55	9.4	1.5	0.86-2.74	0.84	2.31	1.13-4.74	
	Marine Corps Reserve	6	7.3	0.9	0.45-2.10	-	0.94	0.43-2.06	
	Navy Reserve	8	12.4	0.7	0.22-2.66	-	0.74	0.21-2.59	
Race	White/Non-Hispanic	64	9.2	--	--	--	--	--	
	Black/Non-Hispanic	9	9.7	1.3	0.49-3.97	0.35	1.42	0.50-4.01	
	Other	5	10.6	0.8	0.37-1.73	-	0.82	0.38-1.75	
Age	17-24	6	4.7	--	--	--	--	--	
	25-34	27	9.0	1.2	0.43-3.36	0.20	1.22	0.42-3.59	
	35-44	29	11.1	2.1	0.84-5.50	0.72	2.05	0.81-5.18	
	>=45	16	10.2	2.9	1.02-8.44	1.01	2.76	0.97-7.82	
Income	<=60,000	32	7.8	--	--	--	--	--	
	>60,000	46	10.8	2.5	0.78-8.27	0.92	2.51	0.79-7.96	
Marital Status	Married	43	8.6	--	--	--	--	--	
	Divorced/Separated	15	15.0	1.9	1.05-3.52	0.64	1.89	1.05-3.43	
	Never married	20	8.3	1.9	0.98-4.01	0.66	1.94	0.96-3.93	
Military Authority	Officer	20	8.8	--	--	--	--	--	--
	Enlisted	58	9.5	1.4	0.76-2.81	0.33	Not shown	Not shown	0.320
Deployment location	Not deployed to conflict	18	8.5	--	--	--	--	--	
	Deployed to conflict	60	9.6	1.2	0.66-2.38	0.22	1.24	0.65-2.36	
Active combat participation	No	32	7.2	--	--	--	--	--	
	Yes	46	11.7	2.2	1.38-3.78	0.85	2.35	1.39-3.97	
PTSD before most-recent-	No	69	8.6	--	--	--	--	--	
	Yes	9	27.5	4.5	1.85-11.22	1.45	4.26	1.75-10.35	
Female X Enlisted	--	--	--	--	--	--	--	--	--
	Female & Enlisted	--	--	--	--	--	Not shown	Not shown	0.020

Note: Percentages are weighted to be nationally representative of the Air Force Reserve and National Guard, and the Army Reserve and National Guard; Frequencies are unweighted; 'PTSD Related to Most Recent Deployment' refers to reporting Post-Traumatic Stress Disorder (PTSD) criteria consistent with a PTSD diagnosis in relation to an event related to a participant's most-recent deployment (most-recent-deployment); 'Depression in Past Year' refers to reporting symptoms of depression within 12 months prior to the date of interview; 'Branch' categories are Air (Air Force Reserves and Air Force National Guard) and Army (Army Reserves and Army National Guard); Officers include both commissioned and warrant officers; Combat participation refers to active combat participation during the participant's most recent deployment; For a list of events qualifying as potentially traumatic events related to a participant's most-recent deployment, see Appendix 1; For a list of countries and years considered as "Deployed to conflict area", see Appendix 2; "PTSD before most-recent-deployment" refers to "PTSD before most-recent-deployment".

**TABLE 4: Risk of Depression in Past Year Among RNG Wave 1 Participants who Have Been Deployed (N=1240)**

Variable	Value	Sample Characteristics		Model 1			Model 2		
		N	%	OR	95% CI	Bet	OR	95% CI	p-
Gender	Male	147	13.9	--	--	--	--	--	--
	Female	31	16.6	0.98	0.39-2.47	1.4	Not	Not	0.035
Branch	Air Force	21	8.6	--	--	--	--	--	
	Army	125	16.1	1.47	0.70-3.12	0.7	2.12	0.88-5.10	
	Marine Corps Reserve	20	19.6	2.47	0.93-6.52	0.9	2.48	0.93-6.59	
	Navy Reserve	12	10.5	1.93	0.53-7.02	0.6	1.88	0.51-6.99	
Race	White/Non-Hispanic	150	14.6	--	--	--	--	--	
	Black/Non-Hispanic	18	12.9	1.20	0.27-5.42	0.1	1.19	0.26-5.53	
	Other	10	12.7	0.59	0.22-1.57	-	0.57	0.21-1.51	
Age	17-24	35	20.8	--	--	--	--	--	
	25-34	63	14.3	1.10	0.39-3.12	0.0	1.07	0.37-3.12	
	35-44	55	14.1	0.69	0.32-1.45	-	0.70	0.33-1.49	
	>=45	25	10.5	1.19	0.49-2.92	0.1	1.21	0.49-3.03	
Income	<=60,000	121	20.4	--	--	--	--	--	
	>60,000	57	8.7	1.14	0.43-3.01	0.1	1.16	0.44-3.10	
Marital Status	Married	79	10.4	--	--	--	--	--	
	Divorced/Separated	34	21.8	0.54	0.27-1.06	-	0.52	0.26-1.03	
	Never married	65	19.7	1.23	0.60-2.56	0.1	1.21	0.58-2.52	
Military Authority	Officer	26	7.9	--	--	--	--	--	--
	Enlisted	152	16.6	1.01	0.50-2.01	-	Not	Not	0.967
Deployment location	Not deployed to conflict area	61	11.6	--	--	--	--	--	
	Deployed to conflict area	117	16.2	1.89	0.95-3.77	0.6	1.94	0.96-3.93	
Active combat	No	103	12.2	--	--	--	--	--	
	Yes	75	18.6	1.83	1.04-3.22	0.5	1.79	1.02-3.17	
Depression before most-	No	63	6.2	--	--	--	--	--	
	Yes	8	43.9	14.7	4.51-	2.8	16.66	4.67-	
Female X Enlisted	--	--	--	--	--	--	--	--	--
	Female & Enlisted					-	Not	Not	0.009

Note: Percentages are weighted to be nationally representative of the Air Force Reserve and National Guard, and the Army Reserve and National Guard; Frequencies are unweighted; 'PTSD Related to Most Recent Deployment' refers to reporting Post-Traumatic Stress Disorder (PTSD) criteria consistent with a PTSD diagnosis in relation to an event related to a participant's most-recent deployment (most-recent-deployment); 'Depression in Past Year' refers to reporting symptoms of depression within 12 months prior to the date of interview; 'Branch' categories are Air (Air Force Reserves and Air Force National Guard) and Army (Army Reserves and Army National Guard); Officers include both commissioned and warrant officers; Combat participation refers to active combat participation during the participant's most recent deployment; For a list of events qualifying as potentially traumatic events related to a participant's most-recent deployment, see Appendix 1; For a list of countries and years considered as "Deployed to conflict area", see Appendix 2; "PTSD before most-recent-deployment" refers to "PTSD before most-recent-deployment".

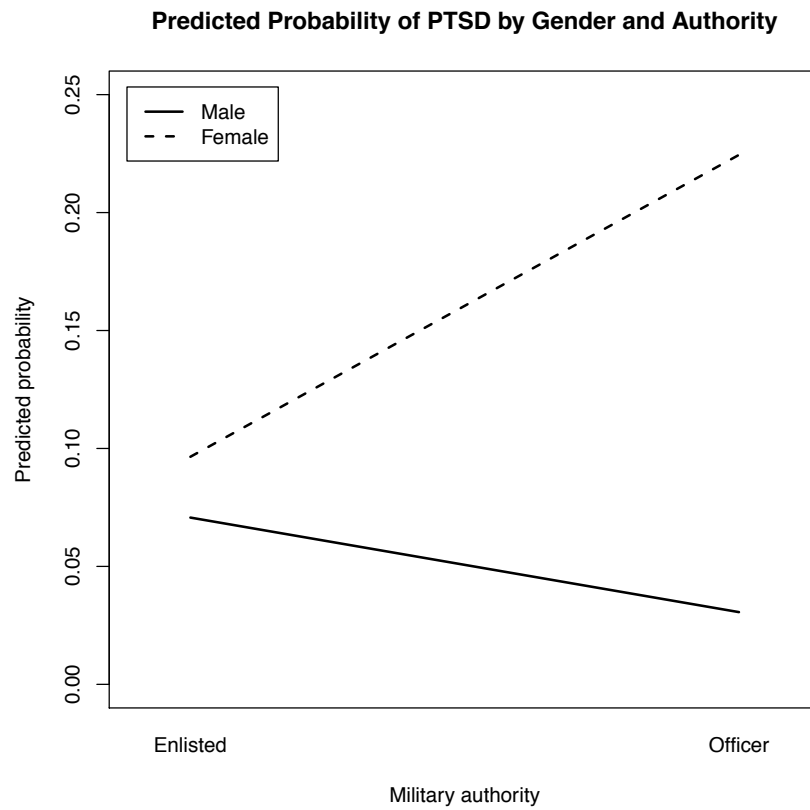


Figure 1 – interaction of gender by military authority in predicted probability of PTSD

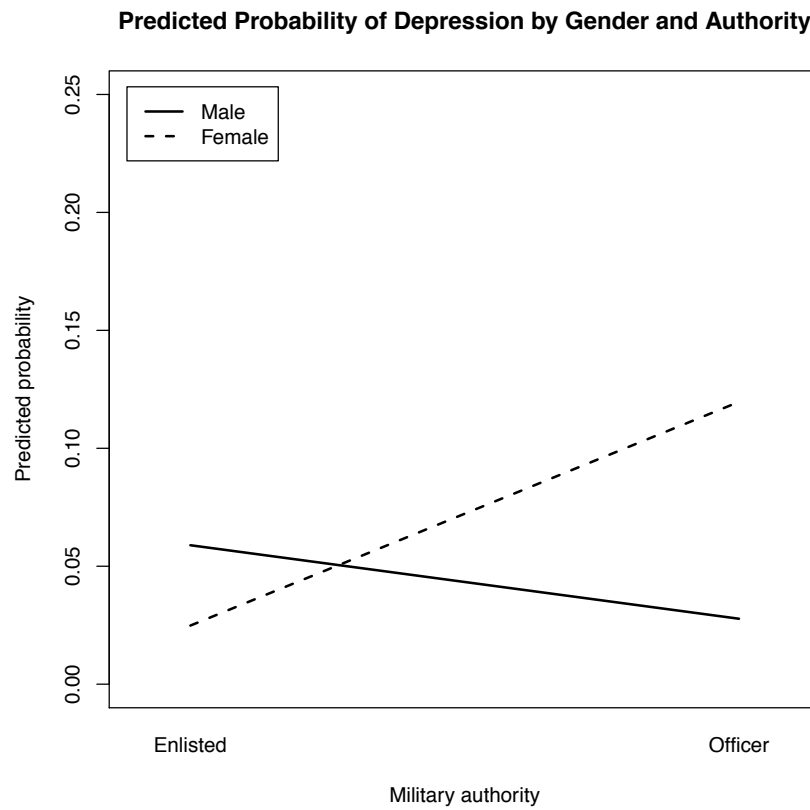


Figure 2 – interaction of gender by military authority in predicted probability of Depression

## **BASELINE SAMPLE MANUSCRIPT UNDER REVIEW**

**BASELINE SAMPLE MANUSCRIPT # 1** - *Sexual Violence and Mental Disorders Among National Guard and Reserve Soldiers* (under review; see Appendix 1 for full manuscript).

### **ABSTRACT**

**Objectives:** We examined the prevalence of sexual violence and its mental health consequences among three representative samples of male and female soldiers.

**Methods:** Structured telephone interviews assessing lifetime and deployment-related rape or sexual assault and current and lifetime posttraumatic stress disorder (PTSD) and depression were conducted with 1,030 Reservists (23% female), 973 National Guard (NG; 15% female), and 2,616 Ohio Army National Guard (OHARNG; 15% female) soldiers.

**Results:** Lifetime sexual violence prevalence was 4.0%, 3.9%, and 5.0% among Reserve, NG, and OHARNG men, and 36.6%, 25.5%, and 36.3% among the Reserve, NG, and OHARNG women, respectively. Among victims, 2.4-7.1% of women and 0-4.5% of men reported deployment-related sexual violence, and odds of current or lifetime PTSD ranged from 3.3 to 7.5, and odds of current or lifetime depression ranged from 1.7 to 5.0.

**Conclusions:** Female reservists reported markedly higher sexual violence prevalence and male soldiers reported similar prevalence relative to the general population. The majority of sexual violence reported is not deployment-related. Findings emphasize a need to screen for lifetime sexual violence experiences and associated mental disorders in military samples.

## LONGITUDINAL SAMPLE MANUSCRIPT IN FINAL STAGES OF PREPARATION

***LONGITUDINAL SAMPLE MANUSCRIPT #1 - Anger Problems and Posttraumatic Stress Disorder in National Guard and Reserve Service Members.*** (in final stages of preparation; see appendix 2 for full manuscript)

### ABSTRACT

Anger is known to be a common problem among veterans and has been shown to be associated with posttraumatic stress disorder (PTSD). Anger problems among current service members, including those in the Reserve or National Guard (RNG), are poorly understood. The present study uses data from a random, representative sample of RNG soldiers ( $n = 1,293$ ). Descriptive statistics and logistic regression were used to assess the prevalence of anger problems and the associations between anger problems PTSD and PTSD symptom severity among men and women. We separately analyzed these associations for PTSD linked with civilian- and deployment-related traumas. Anger was common (prevalence = 49.2%) among RNG soldiers and adjusted prevalence ratios documented associations of civilian- and deployment-related PTSD with anger (Prevalence Ratios were 1.7 – 1.9) and of PTSD symptom severity with anger (PR were 1.2 – 1.5).

## KEY RESEARCH ACCOMPLISHMENTS

- Baseline survey piloted, implemented and completed
- 1000 National Guard forces enrolled and interviewed
- Follow-up surveys piloted, implemented and completed
- Two national conference presentations – (1) International Society for Traumatic Stress Studies annual conference 2012, (2) American Public Health Association annual conference 2012.
- One baseline sample manuscript under review, one longitudinal sample manuscript being finalized for submission, two baseline sample manuscripts under preparation.

## REPORTABLE OUTCOMES

### PRESENTATIONS

Walsh K, Cohen GH, Koenen KC, Ursano R, Gifford RK, Calabrese JR, Tamburrino MB, Liberzon I & Galea S (2012). Prevalence of Sexual Trauma and Mental Health Sequelae Among Three Representative Samples of Reserve and National Guard Personnel. In K Walsh (Chair), Sexual Trauma and Mental Health Outcomes Among Military and Veteran Samples: Prevalence and Characteristics, Treatment Needs, and Barriers to Treatment. Symposium presented at the annual meeting of the International Society for Traumatic Stress Studies, Los Angeles, CA.

Worthen, M. (2012) *Anger problems in United States Military service members: A mixed methods approach*, Conference paper presented at American Public Health Association Annual Meeting, San Francisco, CA.

### MANUSCRIPTS

#### *Under Review:*

- Walsh K, Cohen GH, Koenen KC, Ursano R, Gifford RK, Calabrese JR, Tamburrino MB, Liberzon I & Galea S (2012). Sexual violence and mental disorders among national guard and reserve soldiers

#### *In Final Stages of Preparation:*

- Worthen M, Rathod S, Cohen GH, Ursano RJ, Gifford R, Fullerton C, Galea S, Ahern J. Anger problems and posttraumatic stress disorder in national guard and reserve service members.

#### *Under Preparation:*

- Mental health in national guard and reserve soldiers (Finalized baseline analysis # 1; pg. 8).
- Gender and military authority: the impact of gender and military rank on risk of mental health problems. (Finalized baseline analysis # 2; pg. 13)



## CONCLUSIONS

We have completed three waves of data collection, which entailed enrolling 1000 National Guard force members, as well as piloting and completing three waves of telephone surveys.

Dissemination of baseline and longitudinal results of whole cohort analyses have occurred at national presentations, both at general public health (APHA, 2012) and trauma specialty conferences (ISTSS, 2012).

Manuscripts are being reviewed, finalized and prepared. One manuscript under review features whole cohort baseline analyses and examines the relationship between sexual violence and mental disorders, while another manuscript being finalized for submission features longitudinal whole cohort analyses on the relationship between anger and PTSD. Two manuscripts are currently under preparation - one a descriptive overview of mental health conditions, demographics and military characteristics, and the other an examination of the interaction between gender and military rank in risk of depression and PTSD.

Trajectory analyses of PTSD and co-occurring psychopathology among National Guard forces are in process and will examine the roles of pre-, peri and post-deployment factors in disease etiology and course within a multivariate causal framework. We will document the joint contribution of military and civilian experiences and circumstances to the burden of psychopathology in the reserve component. Additionally, we will examine use of mental health services and unmet psychiatric need among the entire cohort, as well as key diagnostic subgroups such as those with alcohol use problems and comorbid presentations of mental health disorder. Several analysis plans are in progress, including analyses that are both substantive and methodologic in nature.

This representative data set is extremely rich and has already offered the opportunity to examine important questions of public health significance with novel longitudinal methods. We look forward to further dissemination of current findings, and discovery and dissemination of future findings in both general public health and trauma-focused settings, including conferences and academic journals.

## REFERENCES

None at this time

## APPENDICES

- (1) MANUSCRIPT #1: SEXUAL VIOLENCE AND MENTAL DISORDERS AMONG NATIONAL GUARD AND RESERVE SOLDIERS
- (2) MANUSCRIPT #2: ANGER PROBLEMS AND POSTTRAUMATIC STRESS DISORDER IN NATIONAL GUARD AND RESERVE SERVICE MEMBERS
- (3) QUESTIONNAIRE WAVE 1
- (4) QUESTIONNAIRE WAVE 2
- (5) QUESTIONNAIRE WAVE 3

## APPENDIX 1

### Sexual Violence and Mental Disorders Among National Guard and Reserve Soldiers

UNDER REVIEW

## Abstract

**Objectives:** We examined the prevalence of sexual violence and its mental health consequences among three representative samples of male and female soldiers.

**Methods:** Structured telephone interviews assessing lifetime and deployment-related rape or sexual assault and current and lifetime posttraumatic stress disorder (PTSD) and depression were conducted with 1,030 Reservists (23% female), 973 National Guard (NG; 15% female), and 2,616 Ohio Army National Guard (OHARNG; 15% female) soldiers.

**Results:** Lifetime sexual violence prevalence was 4.0%, 3.9%, and 5.0% among Reserve, NG, and OHARNG men, and 36.6%, 25.5%, and 36.3% among the Reserve, NG, and OHARNG women, respectively. Among victims, 2.4-7.1% of women and 0-4.5% of men reported deployment-related sexual violence, and odds of current or lifetime PTSD ranged from 3.3 to 7.5, and odds of current or lifetime depression ranged from 1.7 to 5.0.

**Conclusions:** Female reservists reported markedly higher sexual violence prevalence and male soldiers reported similar prevalence relative to the general population. The majority of sexual violence reported is not deployment-related. Findings emphasize a need to screen for lifetime sexual violence experiences and associated mental disorders in military samples.

## INTRODUCTION

Sexual violence, encompassing both rape (i.e., penetration due to force, threat of force, or drug or alcohol incapacitation) and the broader experience of sexual assault (i.e., unwanted sexual contact occurring due to use of force, threat of force, or manipulation), is a highly prevalent experience with 1 in 5 U.S. women and 1 in 71 U.S. men reporting a rape during their lifetimes<sup>1</sup>. Relative to other forms of violent crime, sexual violence is associated with the highest losses in quality-adjusted life years<sup>2</sup>, and significant costs to society in the form of police and victim advocate services, medical and mental health treatment, loss of productivity/wages, and loss of quality of life<sup>3</sup>. Sexual violence also contributes to substantial burden of psychopathology; posttraumatic stress disorder (PTSD) and depression are the most commonly reported and impairing mental health consequences<sup>4,5,6,7</sup>.

Sexual violence is an underreported experience that is understudied among U.S. soldiers; thus, examining the prevalence and correlates of sexual violence in non-patient, non-VA military samples is critical. Best available estimates suggest that 19% to 42% of U.S. service members returning from Iraq and Afghanistan report mental health problems<sup>8,9,10</sup>. However, we know little about the sexual violence experiences of these soldiers or how they contribute to mental health problems. Prior studies have focused primarily on patients seeking services through the Veteran's Administration and assessed sexual violence occurring only during military engagement<sup>11,12,13,14</sup>. Only three studies have assessed sexual violence prior to military engagement using non-patient active duty samples<sup>15,16,17</sup>. Among a representative sample of Air Force women, 28% reported lifetime sexual violence<sup>15</sup>. In two studies that used non-representative samples of active duty soldiers, 38% of female Navy recruits reported adolescent or adult sexual violence (since age 14)<sup>16</sup>, and 6% of Army men and 50% of Army women reported ever experiencing sexual violence<sup>17</sup>. All three studies found that the majority of incidents involved assaults by civilians when the victims were civilians, suggesting that we may be overlooking important risk factors for mental disorders among soldiers when sexual violence

is assessed only in the context of military service. To date, there have been no epidemiological studies examining sexual violence among non-patient military samples of men and women, which has hindered our understanding of the scope and burden of sexual violence among military personnel.

The present study substantively advances the literature by documenting the prevalence of sexual violence (both lifetime and in the context of the most recent deployment) and associated mental health consequences among three representative samples of non-treatment seeking male and female reservists.

## METHOD

### Sample

*Samples 1 and 2.* Soldiers serving in the Reserves and National Guard as of June 2009 were drawn using a stratified random sample from the Defense Manpower Data Center. In June 2009, we obtained contact information for 10,000 Reserve and 10,000 National Guard soldiers, a sampling frame representative of the national U.S. Reserve and Guard population. A random sample of 9,751 soldiers was invited to participate in the study; 1097 returned an opt-out letter and did not wish to be contacted. After excluding individuals without a correct or working telephone number (2,866 or 29.4% of the possible 9,751), 6,885 working numbers (71%) were called. Of these working numbers, 324 (3%) were not eligible (e.g. no longer enrolled or retired), 1,097 (11% of working numbers) did not wish to participate, 1% (61) were disqualified because they did not speak English or had hearing problems and 35% (3,386) were not contacted before the cohort closed. A total of 2,003 Reserve and National Guard service personnel were interviewed at baseline (between January and July 2010), with an overall cooperation rate (defined as the number of those who consented divided by the number of working numbers successfully contacted) of 68.2% and an overall response rate of 34.1%.

*Sample 3.* All soldiers serving in the Ohio Army National Guard (OHARNG) as of June 2008 (N=10,778) as well as those who enlisted between July 2008 and February 2009

(N=1,792) were invited to participate via a letter describing the study with an option to opt-out and a phone call to obtain each soldier's consent to participate in a telephone interview. Approximately 345 individuals were excluded due to lack of a current address; thus 12,225 letters were sent. Approximately 8% (1,013 soldiers) returned opt-out cards; the remaining 11,212 soldiers were contacted to provide consent for the telephone interviews. Approximately 10% of individuals (n = 1,130) did not have a telephone number listed with the Guard, and 32% (n = 3,568) did not have correct or working telephone numbers; a total of 6,514 working numbers were called. A total of 2,616 male and female soldiers were interviewed at baseline, with an overall cooperation rate of 67.5% and a response rate of 43.2%.

## **Measures**

*Sexual violence.* As part of a larger screening that assessed twenty-one different traumatic events, participants were asked, "In your lifetime, have you ever 1) been raped? 2) experienced another kind of sexual assault or unwanted sexual contact as a result of force, threat of harm, or manipulation?" Participants who responded affirmatively to either question were considered lifetime sexual violence victims. A follow-up yes/no question was asked regarding whether that experience was related to the respondent's most recent deployment.

*PTSD.* For participants who reported any traumatic event, and for those who noted that they responded to the event with fear, helplessness, or horror, the PTSD Checklist-Civilian<sup>18</sup> (PCL-C) version was administered. The PCL-C consists of seventeen items corresponding to the Diagnostic and Statistical Manual of Mental Disorders – 4<sup>th</sup> Edition (DSM-IV) criteria for PTSD. Participants responded to each item on a Likert-type scale ranging from 1 = *Not at All* to 5 = *Extremely*. Participants also rated the degree to which their symptoms interfere with occupational or social pursuits on a scale from 1 = *Not at All* to 4 = *Extremely*. To meet criteria for PTSD, respondents must have endorsed: 1) a criterion A traumatic event; 2) a response to this event that involved helplessness or terror; 3) at least one reexperiencing



symptom of moderate severity; 4) at least three avoidance/numbing symptoms of moderate severity; 5) at least two hyperarousal symptoms of moderate severity; 6) a symptom duration of at least one month; and 7) impairment in social or occupational functioning or extreme distress due to these symptoms. The PCL-C has good reliability, validity, and psychometrics among this population<sup>19,20,21</sup>.

*Depression.* Participants completed the Patient Health Questionnaire<sup>22</sup> (PHQ-9) to assess any of nine symptoms of Major Depression as defined by the DSM-IV for a period of two weeks or more. If participants responded affirmatively to any depression items, they were asked to rate the severity of that symptom on a scale from 1 = *several days* to 3 = *nearly every day*. To be considered depressed, participants had to endorse two or more depression symptoms plus anhedonia or depressed mood at least more than half the days over the course of a two week period. Finally, participants were asked whether the two weeks of depressive symptoms had occurred in the previous thirty days. Clinical validation work with this population suggests that this broader definition of depression (versus Major Depression specifically) assessed on the PHQ-9 corresponds most closely to depression as assessed in clinical interviews<sup>20,21</sup>.

*Covariates.* Previous studies have documented associations between military sexual violence and older age, enlisted rank, and number of traumatic events experienced<sup>14</sup>; thus, we examined associations between lifetime sexual violence and each covariate and included significant covariates in multivariate analyses.

## **Procedures**

As part of a larger investigation of military experiences, health/mental health status, and service utilization, participants completed a 60-minute telephone survey. All interviews were conducted by trained interviewers, who obtained informed consent from each participant at the

start of the interview and offered \$25 compensation. Institutional Review Board approval was obtained for both surveys.

### **Statistical Analyses**

First, we present descriptive information and differences between the OHARNG, Reserve, and NG samples on demographic characteristics and potential covariates. Second, we present prevalence estimates for lifetime and deployment-related sexual violence by sample (Reserves, NG, and OHARNG) and by sex/gender (female, male). Third, we present chi-square analyses to examine bivariate differences in prevalence of PTSD and depression among sexual violence victims and non-victims. Fourth, to adjust for significant covariates, we report odds ratios from logistic regression analyses predicting PTSD and depression from sexual violence while adjusting for covariates that were significant in bivariate analyses.

## **RESULTS**

### **Demographic Characteristics and Covariate Analyses**

Demographic characteristics of participants are presented in Table 1. The Reserve sample contained a greater proportion of women and soldiers 45 or older when compared to the OHARNG and NG samples. No sex differences emerged between the OHARNG and NG samples, but NG soldiers were more likely to be 45 or older compared to OHARNG soldiers. Reserve soldiers were more likely to be ethnic minority when compared to OHARNG and NG soldiers, and NG soldiers were more likely to be ethnic minority when compared to OHARNG soldiers. Reserve soldiers were more likely than NG soldiers and NG soldiers were more likely than OHARNG soldiers to have completed some college or a graduate degree. OHARNG soldiers were less likely to have ever been married compared to NG and RNG soldiers. Reserve soldiers reported less social support compared to NG and OHARNG soldiers. Reserve soldiers were more likely than NG and OHARNG soldiers, and NG soldiers were more likely than OHARNG soldiers to be officers (versus enlisted). NG soldiers were more likely than Reserve and OHARNG soldiers, and Reserves were more likely than OHARNG soldiers to have ever

been deployed. Reserve and NG soldiers reported more “other” traumatic events than OHARNG soldiers, but Reserve and NG soldiers did not differ in the number of traumatic events reported.

Sexual violence victims and non-victims did not differ on age in the Reserve or NG samples; however, female sexual violence victims were likely to be older in the OHARNG sample,  $\chi^2(1, n=385) = 5.6, p < .05$ . Victims and non-victims did not differ in rank; however, across samples, victims reported experiencing a greater number of other traumatic events when compared to non-victims.

### **Sexual violence prevalence estimates for male and female soldiers**

As shown in Figure 1, lifetime sexual violence prevalence ranged from 25.5% for NG women to 36.3% and 36.6% for the OHARNG and Reserve women, respectively. Among men, estimates ranged from 3.9% in the NG sample to 4.0% and 5.0% in the Reserve and OHARNG samples, respectively. Among those reporting any lifetime sexual violence, the prevalence of sexual violence during the most recent deployment ranged from 2.4% for NG women to 5.8% for Reserve women to 7.1% for OHARNG women. For men, estimates were 0.0% for NG and Reserve samples and 4.5% in the OHARNG sample.

### **Current PTSD and depression prevalence among sexual violence victims and non-victims**

*Reserve sample.* As shown in Table 2, sexual violence victims were more likely to report past-year PTSD relative to non-victims, but no differences emerged for past-year depression. Those reporting sexual violence during a recent deployment did not report past-year PTSD or depression.

*NG sample.* No significant differences emerged for current PTSD or depression, nor did those with sexual violence during a recent deployment report past-year PTSD or depression.

*OHARNG sample.* Sexual violence victims were significantly more likely to report past-year PTSD and depression. Among women reporting sexual violence during a recent

deployment ( $n = 10$ ), 50.0% ( $n = 5$ ) and 30.0% ( $n = 3$ ) met criteria for past-year PTSD and depression, respectively. Among men reporting sexual violence during a recent deployment ( $n = 5$ ), 60% ( $n = 3$ ) and 40% ( $n = 2$ ) met criteria for past-year PTSD and depression, respectively.

### **Lifetime PTSD and depression prevalence among sexual violence victims and non-victims**

*Reserve sample.* As shown in Table 3, sexual violence victims were more likely than non-victims to report lifetime PTSD and lifetime depression. Although 60% ( $n = 3$ ) of women reporting sexual violence during a recent deployment reported lifetime PTSD, sexual violence during a recent deployment was not associated with lifetime depression among women, nor was it associated with lifetime PTSD or depression among men.

*NG sample.* Although sexual violence victims were not more likely than non-victims to report lifetime PTSD or depression, 50% ( $n = 1$ ) of women who reported sexual violence during a recent deployment met criteria for lifetime PTSD and depression.

*OHARNG sample.* Sexual violence victims were more likely to report lifetime PTSD and depression. Among women reporting sexual violence during the most recent deployment ( $n = 10$ ), 50% met criteria for lifetime PTSD and 40% met criteria for lifetime depression. Among men reporting sexual violence during the most recent deployment ( $n = 5$ ), 60% and 40% met criteria for lifetime PTSD and depression, respectively.

### **Covariate adjusted odds of meeting criteria for current or lifetime PTSD and depression**

As presented in Table 4, unadjusted odds of meeting criteria for past-year and lifetime PTSD and depression ranged from 2.1 to 6.8 across samples. After controlling for number of traumas experienced and age in the OHARNG sample, adjusted odds ranged from 1.3 to 5.5.

### **COMMENT**

This study is the first to document pervasive exposure to sexual violence over the lifecourse in an epidemiological sample of female and male soldiers. Approximately 1/3 of women and 4-5% of men in each sample reported lifetime sexual violence despite our use of

restrictive definitions (e.g., rape) that require individuals to label their experiences as such. Whereas prior studies have predominantly focused on VA patients' experience of sexual violence in the context of military service, the present study highlights the importance of measuring sexual violence over the lifecourse, even among non-treatment seeking samples, to best understand the impact sexual violence have on soldiers' mental health.

General population prevalence estimates suggest that 18-22% of women and 1.4-4.0% of men report sexual violence<sup>1,5</sup>. Thus, while female soldiers report substantially higher estimates of lifetime sexual violence compared to the general population, male soldiers report estimates that are consistent with those found in the general population. Differences between community-residing women and female soldiers could suggest that those who are drawn to military service may represent a subsample of women with more severe early life adversity including sexual violence. Indeed, the majority of sexual violence reported in the present study appears to have occurred prior to military engagement.

Sexual violence victims in the Reserves and OHARNG were between two and eight times more likely to meet past-year or lifetime PTSD criteria and between two and five times more likely to meet criteria for lifetime depression compared with non-victims. These odds ratios highlight the pervasive and detrimental impact of sexual violence on mental health functioning.

Results from the present study should be considered in the context of study limitations. Data regarding sexual violence exposure and both lifetime and current symptoms of PTSD and depression were self-report and thus may be susceptible to biases or inaccuracies in recall. Further, measures used in the present study allowed us to assess various types of traumatic events, but we were unable to assess the number of times each of these events occurred or the ages at which respondents experienced each event. Similarly, lifetime and deployment-related sexual violence questions were not necessarily mutually exclusive; thus, individuals who responded affirmatively to questions about deployment-related sexual violence also may have experienced sexual violence prior to military engagement. Future studies should collect

additional information about the nature and timeline of traumatic events experienced. Data for the present study were cross-sectional, thus, we do not have measures of pre-military functioning, and definitive statements about these findings cannot be made without additional longitudinal research. Although cooperation rates were consistent with those of other recent epidemiologic samples (for review see <sup>23</sup>), efforts should be made to improve participation.

Despite these limitations, the present study has important implications for the assessment of sexual violence and associated mental disorders among military personnel. Specifically, if practitioners focus only on sexual violence occurring during military service, they may be missing an important contingent of soldiers with lifetime sexual violence experiences that may be contributing to current mental health problems. Further, although sexual violence estimates in the present study were reported at or above estimates found in prior studies with female soldiers, sexual violence is substantially underreported to formal agencies in civilian samples<sup>24</sup>. Recent reviews have highlighted significant barriers to reporting sexual violence occurring within the context of military service among male soldiers including stigma, fear of negative consequences, and shame<sup>11</sup>, and the Department of Defense has documented heightened barriers to reporting sexual violence among military samples including perceived lack of available forensic and medical care, lack of confidentiality, and perceived deficiencies in command leadership<sup>25</sup>. Future research can fruitfully explore ways to improve sexual violence and mental health symptom reporting among military samples.

## REFERENCES

1. Black MC, Basile KC, Breiding MJ, et al. The National Intimate Partner and Sexual Violence Survey (NISVIS): 2010 Summary Report. Atlanta, GA: National Center for Injury Prevention and Control, Centers for Disease Control and Prevention.
2. Dolan P, Loomes G, Peasgood T, Tsuchiya A. Estimating the intangible victim costs of violent crime. *Br J Criminol* 2005;45:958-976.
3. Post LA, Mezey NJ, Maxwell C, Wibert WN. The rape tax: Tangible and intangible costs of sexual violence. *J Interpers Violence* 2002;17:773-782.
4. Darves-Bornoz J-M, Alonso J, de Girolamo G, et al. Main traumatic events in Europe: PTSD in the European study of the epidemiology of mental disorders survey. *J Traumatic Stress* 2008;21:455-462.
5. Elliott DM, Mok DS, Briere J. Adult sexual assault: Prevalence, symptomatology, and sex differences in the general population. *J Traumatic Stress* 2004; 17: 203-211.
6. Hapke Um Schumann A, Rumf H-J, John U, Meyer C. Posttraumatic stress disorder: The role of trauma, pre-existing psychiatric disorders, and gender. *European Archives of Psychiatry and Clinical Neuroscience* 2006; 256:299-306.
7. Kaminer D, Grimsund A, Myer L, Stein DJ, Williams DR. Risk for posttraumatic stress disorder associated with different forms of interpersonal violence in South Africa. *Social Science and Medicine* 2008;67:1589-95.
8. Hoge CW, Auchterlonie JL, Miliken CS. Mental health problems, use of mental health services, and attrition from military service after returning from deployment to Iraq or Afghanistan. *JAMA* 2006; 295:1023-32.
9. Milliken CS, Auchterlonie JL, Hoge CW. Longitudinal assessment of mental health problems among active and reserve component soldiers returning from the Iraq war. *JAMA* 2007;298:2141-8.
10. Seal KH, Metzler TJ, Gima KS, Bertenthal D, Maguen S, Marmar CR. Trends and risk factors for mental health diagnoses among Iraq and Afghanistan veterans using Department of Veterans Affairs health care, 2002-2008. *Am J Public Health* 2009;99:1651-1658.
11. Hoyt T, Rielage JK, Williams LF. Military sexual trauma in men: A review of reported rates. *Journal of Trauma & Dissociation* 2011;12:244-260.
12. Kimerling R, Street AE, Pavao J, et al. Military-related sexual trauma among Veteran's Health Administration patients returning from Afghanistan and Iraq. *Am J Public Health* 2010; 100:1409-12.
13. Street AE, Stafford JA, Mahan CM, Hendricks AM. Sexual harassment and assault experienced by reservists during military service: prevalence and health correlates. *Journal of Rehabilitation Research and Development* 2008;45:409-19.
14. Suris A, Lind L. Military sexual trauma: A review of prevalence and associated health consequences in veterans. *Trauma, Violence, & Abuse* 2008; 9: 250-69.
15. Bostock DJ, Daley JG. Lifetime and current sexual assault and harassment victimization rates of active-duty United States Air Force women. *Violence Against Women* 2007;13:927-44.
16. Stander VA, Merrill LL, Thomsen CJ, Crouch JL, Milner JS. Premilitary adult sexual assault victimization and perpetration in a Navy recruit sample. *J Interpersonal Violence* 2008; 23:1636-53.
17. Martin L, Rosen LN, Durand DB, Knudson KH, Stretch RH. Psychological and physical health effects of sexual assaults and nonsexual traumas among male and female United States Army soldiers. *Behavioral Medicine* 2000;26:23-33.
18. Weathers F, Ford J. Psychometric review of PTSD Checklist (PCL-C, PCL-S, PCL-M, PCL-PR). In: Stamm BH, ed. *Measurement of Stress, Trauma, and Adaptation*. Lutherville: Sidran Press, 1996.
19. Blanchard EB, Jones-Alexander J, Buckley TC, Forneris CA. Psychometric properties of the PTSD Checklist. *Behavior Research and Therapy* 1996;34:669-73.

20. Calabrese JR, Prescott M, Tamburrino M, Liberzon I, Slembariski R, Goldmann E. et al. PTSD comorbidity and suicidal ideation associated with PTSD within the Ohio Army National Guard. *J Clin Psychiatry* 2011;72:1072-78.
21. Marshall BDL, Prescott MR, Liberzon I, Tamburrino MB, Calabrese JR, Galea S. Coincident posttraumatic stress disorder and depression predict alcohol abuse during and after deployment among army national guard soldiers. *Drug and Alcohol Dependence* 2012;
22. Kroenke K, Spitzer RL, Williams JB. The PHQ-9: Validity of a brief depression severity measure. *J Gen Intern Med* 2001;16:606-13.
23. Galea S, Tracy M. Participation rates in epidemiologic studies. *Annals of Epi* 2007; 17: 643-653.
24. Tjaden P, Thoennes N. Extent, Nature, and Consequences of Rape Victimization: Findings From the National Violence Against Women Survey. Washington, DC: National Institute of Justice, 2006.
25. Department of Defense (DoD). Task Force report on care for victims of sexual assault. April 2004.



Table 1- Demographics

CHARACTERISTICS	Reserve (n=1030)		NG Sample (n = 973)		OHARNG Sample (n=2616)	
	n	%	n	%	n	%
Gender						
Male	792	76.9	826	84.9	2228	85.2
Female	238	23.1	147	15.1	388	14.8
Age						
18-24	211	20.5	243	25.0	878	33.6
25-34	316	30.7	332	34.1	848	32.5
35-44	273	26.5	253	26.0	634	24.3
45+	214	20.8	134	13.8	250	9.6
Race						
White (incl. Hispanic)	733	71.2	770	79.1	2295	87.8
Black (incl. Hispanic)	149	14.5	94	9.7	195	7.5
Other (incl. Hispanic)	145	14.1	103	10.6	123	4.7
Education						
HS/GED or less	159	15.4	200	20.6	727	27.8
Some College/Tech. Training	424	41.2	447	45.9	1234	47.2
College/Graduate degree	442	42.9	321	33.0	655	25.0
Marital Status						
Married	558	54.2	499	51.5	1227	47.0
Divorced/Separated/Widowed	122	11.9	126	13.0	252	9.6
Never Married	349	33.9	344	35.5	1134	43.4
Psychosocial Support						
Low	572	55.5	492	50.6	1349	51.6
High	458	44.5	481	49.4	1267	48.4
Rank						
Officer	292	28.3	177	18.3	342	13.1
Enlisted, cadets & civilian emp.	738	71.7	789	81.7	2273	86.9
Ever Deployed						
No	284	27.6	230	23.6	939	36.0
Yes	739	71.7	739	76.0	1668	64.0
Trauma History	Mean	SD	Mean	SD	Mean	SD
Traumatic events (excluding sexual trauma)	9.7	5.7	9.2	5.7	5.9	3.9

Figure 1

Prevalence of Any Sexual Violence and Deployment-Related Sexual Violence for Women and Men in the Reserves, National Guard, and Ohio Army National Guard

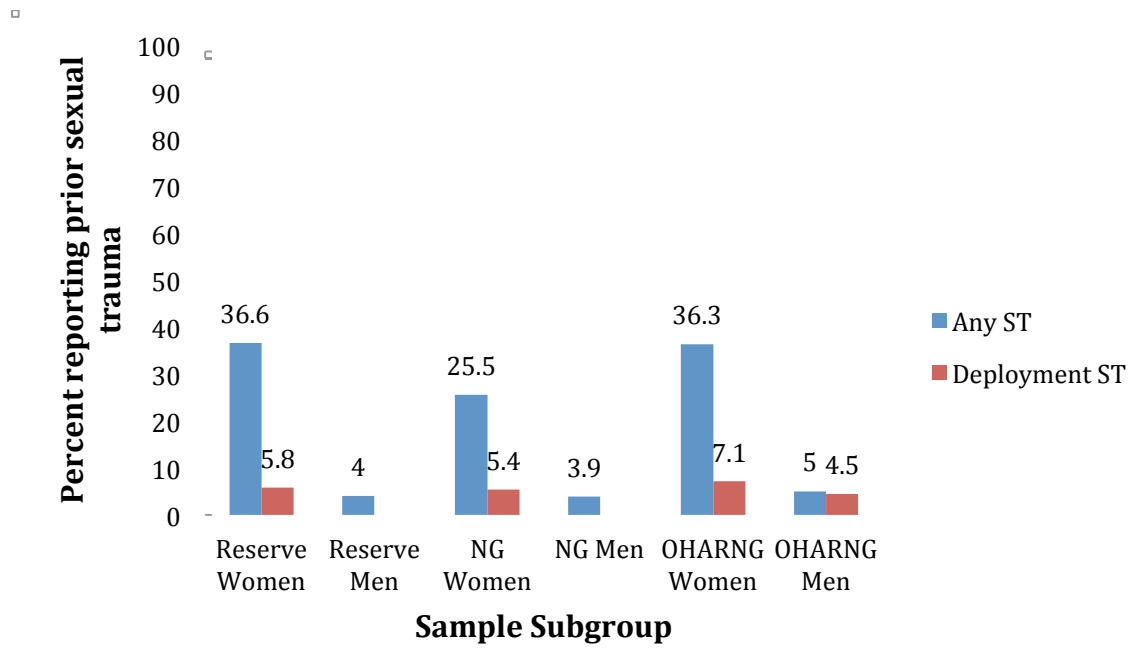


Table 2 - Prevalence of Past-Year PTSD and Depression by Sexual Violence Exposure

	Past-Year PTSD			Past-Year Depression		
	Any Sexual Violence	SV During Recent Deployment	No Sexual Violence	Sexual Violence	SV During Recent Deployment	No Sexual Violence
Reserve Women N = 235	13*** (15.1%)	0 (0.0%)	7 (4.7%)	12 (14.0%)	0 (0.0%)	10 (6.7%)
Reserve Men N = 792	6*** (18.8%)	0 (0.0%)	25 (3.3%)	4 (12.5%)	0 (0.0%)	56 (7.4%)
NG Women N = 145	4 (10.8%)	0 (0.0%)	6 (5.6%)	4 (10.8%)	0 (0.0%)	8 (7.4%)
NG Men N = 823	3 (9.4%)	0 (0.0%)	38 (4.8%)	4 (12.5%)	0 (0.0%)	67 (8.5%)
OHARNG Women N = 355/386	33*** (23.6%)	5 (50.0%)	10 (4.7%)	52*** (37.1%)	3 (30.0%)	26 (10.6%)
OHARNG Men N = 2103/2227	20*** (18.2%)	3 (60.0%)	125 (6.3%)	22* (19.8%)	2 (40.0%)	264 (12.5%)

Note: SV During Recent Deployment refers to the % of soldiers who experienced any sexual violence who reported that it occurred during their recent deployment; \*\*\* differences between victims and non-victims are significant at the  $p < .001$  level. The *ns* listed for the OHARNG men and women differ depending on the construct assessed, therefore, the number before the slash refers to the *n* for PTSD and the number following the slash refers to the *n* for depression.

Table 3 - Lifetime PTSD and Depression by Sexual Violence Exposure

	Lifetime PTSD			Lifetime Depression		
	Any Sexual Violence	SV During Recent Deployment	No Sexual Violence	Any Sexual Violence	SV During Recent Deployment	No Sexual Violence
Reserve Women N = 235	26*** (30.2%)	3 (60.0%)	12*** (8.1%)	32*** (37.2 %)	0 (0.0%)	29*** (19.5%)
Reserve Men N = 792	13*** (40.6%)	0 (0.0%)	65*** (8.6%)	17*** (53.1%)	0 (0.0%)	142*** (18.7%)
NG Women N = 145	8 (21.6%)	1 (50.0%)	11 (10.2%)	12 (32.4%)	1 (50.0%)	21 (19.4%)
NG Men N = 823	7 (21.9%)	0 (0.0%)	93 (11.8%)	9 (28.1%)	0 (0.0%)	167 (21.1%)
OHARNG Women N = 355/386	48*** (34.3%)	5 (50.0%)	14*** (6.5%)	71*** (62.8%)	4 (40.0%)	69*** (25.3%)
OHARNG Men N = 2103/2227	29*** (26.4%)	3 (60.0%)	18*** (7.9%)	41*** (9.2%)	2 (40.0%)	70*** (3.9%)

Note: SV During Recent Deployment refers to the % of soldiers who experienced any sexual violence who reported that it occurred during their recent deployment; \*\*\* differences between victims and non-victims are significant at the  $p < .001$  level. The *ns* listed for the OHARNG men and women differ depending on the construct assessed, therefore, the number before the slash refers to the *n* for PTSD and the number following the slash refers to the *n* for depression.

Table 4- Odds (95% C.I.) of Past-Year or Lifetime PTSD or Depression by Sexual Violence

	Past-year PTSD	Lifetime PTSD	Past-year Depression	Lifetime Depression
Reserve Women				
Sexual Violence	3.6** (1.4-9.4)	4.9*** (2.3-10.5)	2.3 (.9-5.5)	2.5** (1.4-4.5)
Sexual Violence Adj.	1.9 (.65-5.5)	2.5* (1.1-5.7)	1.3 (.47-3.5)	1.3 (.67-2.6)
Reserve Men				
Sexual Violence	6.8*** (2.6-17.9)	7.3*** (3.5-15.4)	1.8 (.61-5.3)	4.9*** (2.4-10.1)
Sexual Violence Adj.	2.8 (1.0-8.1)	3.3** (1.5-7.6)	.67 (.21-2.1)	2.1 (.93-4.6)
NG Women				
Sexual Violence	2.1 (.6-7.8)	2.5 (.9-6.6)	1.5 (.4-5.3)	2.0 (.9-4.6)
Sexual Violence Adj.	1.3 (.32-5.2)	1.1 (.36-3.7)	.61 (.14-2.7)	.75 (.46-2.9)
NG Men				
Sexual Violence	2.1 (.6-7.0)	2.1 (.9-5.0)	1.6 (.5-4.5)	1.5 (.7-3.2)
Sexual Violence Adj.	1.4 (.38-4.8)	1.3 (.52-3.2)	.89 (.29-2.8)	.89 (.38-2.1)
OHARNG Women				
Sexual Violence	6.3*** (3.0-13.3)	7.5*** (3.9-14.3)	5.0*** (2.9-8.5)	5.0*** (3.1-7.8)
Sexual Violence Adj.	5.5*** (2.5-1.8)	6.4*** (3.3-12.6)	3.9*** (2.2-6.9)	3.8*** (2.3-6.3)
OHARNG Men				
Sexual Violence	3.3*** (2.0-5.6)	4.1*** (2.6-6.5)	1.7* (1.1-2.8)	2.5*** (1.7-3.7)
Sexual Violence Adj.	2.2** (1.3-3.8)	2.9*** (1.8-4.6)	1.1 (.65-1.8)	1.7* (1.1-2.5)

Note: Sexual Violence Adj. refers to the odds ratio for sexual violence adjusted for the number of other traumatic events experienced and in the OHARNG female sample, estimates are adjusted for number of other traumatic events and older age

## APPENDIX 2

### **Anger Problems and Posttraumatic Stress Disorder in National Guard and Reserve Service Members**

#### **Abstract**

Anger is known to be a common problem among veterans and has been shown to be associated with posttraumatic stress disorder (PTSD). Anger problems among current service members, including those in the Reserve or National Guard (RNG), are poorly understood. The present study uses data from a random, representative sample of RNG soldiers ( $n = 1,293$ ). Descriptive statistics and logistic regression were used to assess the prevalence of anger problems and the associations between anger problems PTSD and PTSD symptom severity among men and women. We separately analyzed these associations for PTSD linked with civilian- and deployment-related traumas. Anger was common (prevalence = 49.2%) among RNG soldiers and adjusted prevalence ratios documented associations of civilian- and deployment-related PTSD with anger (Prevalence Ratios were 1.7 – 1.9) and of PTSD symptom severity with anger (PR were 1.2 – 1.5). We discuss the implications of these findings and future research objectives.

#### **Introduction**

Anger problems among military veterans are alarmingly common, with population-based estimates of the prevalence of self-reported problems with anger ranging between 44% and 57% (Pew Research Center, 2011; Sayer et al., 2010; Wheeler, 2007). Anger problems are associated with a number of negative consequences including poor family functioning (Evans, McHugh, Hopwood, & Watt, 2003; Taft, Schumm, Panuzio, & Proctor, 2008), negative

workplace and school outcomes (Chen & Spector, 1992; Frueh, Henning, Pellegrin, & Chobot, 1997; Hershcovis et al., 2007; Inness, Leblanc, & Barling, 2008; O'Neill, Vandenberg, Dejoy, & Wilson, 2009; Struthers, Miller, Boudens, & Briggs, 2001; S. P. Thomas & Smith, 2004), aggression (Taft, Street, Marshall, Dowdall, & Riggs, 2007; Teten et al., 2010), and poorer treatment outcomes for posttraumatic stress disorder (PTSD) (Forbes et al., 2005; Forbes, Creamer, Hawthorne, Allen, & McHugh, 2003; Forbes et al., 2008).

PTSD is one of the signature wounds of the wars in Iraq and Afghanistan, with estimated prevalence of PTSD among recently redeployed service members ranging from 11.6% to 24.5%, with higher incidence found among Reserve and National Guard service members compared to other branches of the military (Hoge, Auchterlonie, & Milliken, 2006; Hoge et al., 2004; Hoge, Terhakopian, Castro, Messer, & Engel, 2007; Litz & Schlenger, 2009; Milliken, Auchterlonie, & Hoge, 2007; Seal, Bertenthal, Miner, Sen, & Marmar, 2007; Vasterling et al., 2006).

Studies with veterans, some from the Vietnam era and some more recent, have consistently found that problems with anger are associated with PTSD (Beckham, Feldman, & Kirby, 1998; Elbogen et al., 2010; Gondolf & Foster, 1991; Jakupcak et al., 2007; Kulkarni, Porter, & Rauch, 2012; Lasko, Gurvits, Kuhne, Orr, & Pitman, 1994; McFall, Wright, Donovan, & Raskind, 1999; Taft, Kaloupek et al., 2007; Taft, Street et al., 2007; Taft, Vogt, Marshall, Panuzio, & Niles, 2007; Worthen, 2011). However, many of these studies are limited in their inference because they examine the relations between anger and PTSD among non-representative groups of veterans, including those in treatment for psychosocial problems, substance abuse, and domestic violence. In addition, studies with Vietnam era veterans often took place long after soldiers returned from war, raising questions about whether these findings are generalizable to

today's recent veterans or service members. We are aware of only one study that has examined the relations between anger and PTSD among women, who make up 15% of current service members (Butterfield, Forneris, Feldman, & Beckham, 2000).

While there is research on many of the negative consequences of anger in veterans (as well as civilians), less is known about how anger may affect current service members. It is important to better understand how anger influences active service members because it may affect their ability to function in their unit, control aggressive impulses appropriately, or transition in and out of combat situations safely. Two recent studies have examined anger in current military service members. In a large study of active component and National Guard soldiers 3 and 12-months after return from Iraq, Thomas et al. found that 38% - 43% reported getting angry and kicking, hitting, or smashing something (J. L. Thomas et al., 2010). This represents a slightly lower prevalence of anger than has been found among veterans. A validation study of the Dimension of Anger Scale in treatment-seeking U.S. Army soldiers after return from deployment to Afghanistan or Iraq demonstrated a strong correlation between anger and several mental health outcomes, including PTSD (Novaco, Swanson, Gonzalez, Gahm, & Reger, 2012). To our knowledge, no research has examined the relations between anger and PTSD among a population-based sample of current military service members.

Military service members are at risk of PTSD not just from deployment-related traumas, such as violent combat or sexual assault, but also from traumas they may experience outside of deployment, such as a car accident. To our knowledge no study has been conducted on the relations between anger and PTSD associated with civilian- versus deployment-related traumas in a population of current or former service members. A meta-analysis by Brewin et al. (Brewin, Andrews, & Valentine, 2000) found that many risk and protective factors for PTSD were different



in studies of military populations compared to civilian populations. This raises an important question about whether the military population is itself different from a civilian population, or whether PTSD associated with deployment-related traumas is likely to produce a different constellation of experiences than PTSD associated with civilian-related traumas. Understanding the relations between anger and PTSD associated with deployment- and civilian-related traumas within an entirely military population would better isolate the contribution of trauma-type.

In order to address these gaps in the current literature, this article uses data from a cohort study of a randomly selected representative sample of National Guard and Reserve soldiers to examine the prevalence of problems with anger and the relations between anger problems and PTSD associated to civilian- and deployment-related traumas among men and women.

## **Methods**

The study protocol was approved by the U.S. Army Medical Command's Congressionally Directed Medical Research Programs Unit, the Human Research Protection Office at the U.S. Army Medical Research & Materiel Command, and the Institutional Review Boards at both the Uniformed Services University of the Health Sciences and Columbia University. Verbal informed consent was obtained from all participants.

### *Study Population and Sampling*

A stratified random sample of National Guard and Reserve soldiers who were serving in the military as of June 2009 obtained through the Defense Manpower Data Center (DMDC) was recruited for participation in a longitudinal cohort study. DMDC provided us with contact information for 20,000 individuals that constitute a representative sampling frame of 10,000

Reserve and 10,000 National Guard soldiers. An alert letter was sent to a random sample of 9,751 soldiers, of which 1,097 (11.3%) opted not to participate in the study. After eliminating individuals who did not have a correct or working phone number (2,866; 33.1%), we had 5,788 (66.9%) possible participants. Of these, 324 (5.6%) were not eligible (e.g., too young or retired), 1,097 (19.0%) did not wish to participate, 61 (1.1%) were disqualified (e.g., did not speak English or had hearing problems), and 3,386 (58.5%) were not contacted before the cohort closed. Official enrollment into the cohort (N = 2,003) and consent to participate in the study began in January 2010 and ended July 2010. Participants were compensated for their time with \$25. A second wave of data collection, beginning in 2011 followed up 1,293 members of the initial cohort. For the present study, data on gender and race was obtained from the first wave of data; all other variables were obtained from the second wave of data.

### *Telephone Interviews*

In each wave of data collection, participants were administered a 40-minute telephone survey using a computer-assisted telephone interview (CATI). The survey included questions on military history and experiences, deployment-related and civilian psychopathology, health status, mental health service use, health-risk behaviors, and demographic characteristics. The second wave data also included questions about problems experienced with anger.

### *Measures and Assessments*

*Military History and Lifetime Traumatic Events:* To assess deployment history and traumatic events experienced during deployment, we used items adapted from the Deployment Risk and Resilience Inventory (King, King, Vogt, Knight, & Samper, 2006). We assessed exposure to PTSD criterion A events that include physical assault, sexual assault, and serious accident occurring during a participants' lifetime, using a list developed by the Centers for Disease

Control and Prevention and based on the Diagnostic Interview Schedule (Centers for Disease Control and Prevention (CDC), 1989). This series captures both civilian traumas and traumas that occurred during a National Guard or Reserve deployment. In the baseline survey, these questions were asked for lifetime occurrence of events. In the second wave survey, questions were asked about events occurring in the year between surveys.

*Posttraumatic Stress Disorder (PTSD):* PTSD was measured using the PTSD Checklist (PCL-C) to evaluate PTSD symptoms based on DSM-IV criteria (Keen, Kutter, Niles, & Krinsley, 2008; Norris & Hamblen, 2003; Weathers, Litz, Herman, Huska, & Keane, 1993). The PCL is widely used in military populations and has good psychometric properties (Keen et al., 2008; Weathers, Litz, Huska, Keane, & National Center for PTSD, 1994). In one military population, the scale was shown to have an internal consistency of 0.97 and consistency within subscales ranging from 0.92 – 0.93. Test-retest reliability was 0.96. The PCL was highly correlated with other PTSD scales, including the Mississippi Scale of Combat Related PTSD (coefficient: 0.93) (Weathers et al., 1993). Keen, et al. have reported very similar psychometric properties for the scale in other combat veteran populations (Keen et al., 2008).

Although there is a military version of the scale, the PCL-C is often preferred because it captures non-combat deployment-related traumas, such as sexual assault, as well as combat traumas (Novaco et al., 2012). In addition, we assessed DSM-IV criterion E (duration of symptoms  $\geq$  one month) and criterion F (functional impairment). To meet criterion F, participants had to respond “very difficult” or “extremely difficult” to either of the following questions: “How difficult did these problems make it for you to do your work, take care of things at home, or get along with other people?” or “When you had several of these bad moods, feelings, and memories, how distressing was it for you?”

Participants were administered the PCL if they reported experiencing any criterion A trauma as a civilian or during a deployment. They were administered the scale with respect to what they identified as the “worst” trauma as a civilian and the “worst” trauma related to a deployment. Thus, respondents had the opportunity to be administered the PCL twice, creating separate scores for civilian-related PTSD symptoms and deployment-related PTSD symptoms.

Among participants who experienced a criterion A trauma, to be classified as having PTSD, participants had to also meet criterion B (at least one symptom of reexperiencing), criterion C (at least three symptoms of avoidance), criterion D (at least two symptoms of hyperarousal), criterion E (duration of symptoms of at least one month), and criterion F (significant impairment) (Keen et al., 2008; Norris & Hamblen, 2003; Weathers et al., 1994). Criterion A2 was dropped based on the draft DSM-V classification criteria statement that determined this criterion is not useful for classification of PTSD (American Psychiatric Association DSM-5 Development; Friedman, Resick, Bryant, & Brewin, 2011). Further, recent research in veteran populations indicates that criterion A2 is not necessary for diagnosing PTSD in veteran populations (Adler, Wright, Bliese, Eckford, & Hoge, 2008; Osei-Bonsu et al., 2012). PTSD symptom severity was measured using a continuous score of symptoms in criteria B, C, and D (Keen et al., 2008; Weathers et al., 1994).

*Anger:* Anger was measured using a four-item version of the Dimensions of Anger (DAR) scale (Forbes et al., 2004; Hawthorne, Mouthaan, Forbes, & Novaco, 2006; Novaco et al., 2012), as modified by Forbes et al. (Forbes et al., 2004). One item pertaining to anger duration was removed, leaving a four-item scale assessing the frequency, intensity, antagonism, and impairment involved with the respondent’s experience of anger in the past 12 months (Novaco,

1975; Novaco et al., 2012). Two studies in military populations have provided evidence for the scale's unidimensionality (Forbes et al., 2004; Novaco et al., 2012). For the present sample of 1,293 National Guard and Reserve soldiers, a factor analysis found one factor, with loadings ranging from .64 - .69.

The four items include questions such as, "I often find myself getting angry at people or situations" and "My anger prevents me from getting along with people as well as I'd like to." Questions were asked on a 5-point Likert scale, ranging from strongly disagree to strongly agree. Participants were coded as having a problem with anger if they responded that they "agreed" or "strongly agreed" with any of the four statements.

### **Statistical Methods**

We described the total prevalence of problems with anger and the prevalence of anger by demographic characteristics and by PTSD status (no PTSD, only civilian-related PTSD, only deployment-related PTSD, and both civilian- and deployment-related PTSD). We examined these relations separately among men and women.<sup>1</sup>

We used log Poisson regression models with robust standard errors to examine the association between problems with anger and PTSD and PTSD symptom severity. This approach has been shown to reliably estimate adjusted prevalence ratios when binomial regression models cannot converge (Zou, 2003). We examined the association between anger and PTSD and anger and PTSD symptom severity associations by type of trauma (civilian- and/or deployment-related) by restricting analyses to only those with one type of trauma (e.g. examining the association

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<sup>1</sup> This study was not powered to detect differences between men and women and thus there were some analyses that we were unable to perform separately for women.

between anger and deployment-related PTSD restricted to those without civilian-related PTSD) and by using an interaction term to capture a possible interaction between civilian- and deployment-related PTSD. We conducted these analyses separately for men and women.

## Results

The characteristics of this sample are described in Table 1. The prevalence of anger was 49.2% (95% Confidence Interval (CI): 46.5 – 51.9). Group differences were examined by demographic characteristics. The prevalence of anger was similar among women and men (45.5% of women, 50.0% in men). The prevalence of anger decreased substantially with increasing age and education. Enlisted soldiers had a higher prevalence of anger than officers, and those who were married had a lower prevalence of anger than unmarried soldiers. Probable civilian-related PTSD was documented among 4.3% of participants; probable deployment-related PTSD was documented among 3.0% of participants. Men had slightly lower prevalence of civilian-related PTSD and slightly higher prevalence of deployment-related PTSD compared to women.

Table 2 examines the prevalence of anger by PTSD status. There is a markedly higher prevalence of anger among those with PTSD related to either civilian or deployment-related trauma. Among those with PTSD related to both civilian and deployment-related traumas, all but one service member reported problems with anger.

In regression analyses controlling for confounders, men with probable deployment-related PTSD had an increased prevalence of anger problems compared to men without PTSD (prevalence ratio (PR) = 1.9, 95% CI: 1.6 – 2.3) (model excluded those with probable civilian-related PTSD) (see Table 3). Men with probable civilian-related PTSD were also at increased risk of anger problems compared to those without PTSD (PR = 1.7, 95% CI: 1.3 – 2.1) (model

excluded those with probable deployment-related PTSD). For men with PTSD from both types of trauma, the prevalence ratio was 1.9 (95% CI: 0.9 – 3.9). Separate analyses for women were unstable as all women in the sample who reported deployment-related PTSD also reported civilian PTSD and problems with anger.

We finally examined the association between PTSD symptom severity and anger problems (Table 4). In regression analyses controlling for possible confounders, among men without civilian-related PTSD, for each standard deviation higher level of deployment-related PTSD symptom severity, the prevalence of problems with anger was 1.3 times higher (95% CI: 1.2 – 1.4). A similar association was found for each standard deviation increase in civilian-related PTSD symptom severity (among those without deployment-related PTSD) (PR = 1.2, 95% CI: 1.2 – 1.3). Among women, the association between PTSD and anger was stronger: the PR for a standard deviation higher level of deployment-related PTSD symptom severity was 1.5 (95% CI: 1.3 – 1.9); the PR for a higher level in civilian-related PTSD symptom severity was 1.4 (95% CI: 1.3 – 1.5).

## **Discussion**

In a representative national sample of Reserve and National Guard soldiers, we found that half of all soldiers reported problems with anger. There was only a minimal difference in the prevalence of anger among men and women. The prevalence of anger in this population is more similar to the prevalence in recent veteran populations (Pew Research Center, 2011; Sayer et al., 2010; Wheeler, 2007) than to the prevalence found by Thomas et al. in current National Guard (J. L. Thomas et al., 2010). The study by Thomas et al., however, examined only anger linked to aggressive behaviors whereas this study and studies of recent veterans have asked questions about disruptive anger more broadly.

Consistent with studies in veteran populations, we found that anger was strongly associated with PTSD in this population of current Reserve and National Guard service members (Beckham et al., 1998; Gondolf & Foster, 1991; Kulkarni et al., 2012; Lasko et al., 1994; McFall et al., 1999; Taft, Kaloupek et al., 2007; Taft, Street et al., 2007; Taft, Vogt et al., 2007). Notably, although the population was small, all women with deployment-related PTSD reported problems with anger.

In adjusted models, the prevalence of problems with anger was highest among men who experienced PTSD related to both civilian- and deployment-related traumas. The prevalence of anger problems was only slightly lower for men with only deployment-related trauma. The prevalence of anger problems dropped significantly among those who experienced only civilian-related PTSD, but were still quite elevated compared to those without any PTSD. This suggests that the trauma event precipitating PTSD modifies the relationship between anger and PTSD in current military service members. This finding is consistent with the results of Brewin et al.'s meta-analysis reporting that many factors associated with PTSD in military and non-military populations are different (Brewin et al., 2000).

While we were underpowered to examine the association between anger and PTSD related to different sources of trauma among women, we were able to examine PTSD symptom severity among women. We found that women and men had similar patterns in the association between anger and PTSD symptom severity stratified by civilian- and deployment-related PTSD. While deployment-related PTSD was associated with a higher prevalence of anger than civilian-related PTSD among both groups, women showed an increased elevation in anger associated with both civilian- and deployment-related PTSD compared to men. These findings are



consistent with Kulkarni et al.'s research with treatment-seeking male veterans (38% of whom had served in OEF/OIF), which found that anger was a significant predictor of PTSD symptom severity (Kulkarni et al., 2012). Yet while Kulkarni et al. suggest that anger may be a particular problem for male veterans because of the consistency of anger with a traditional male gender role, our research suggests that anger is as much, if not more, of a problem for female service members as it is for male. This is consistent with qualitative research with male and female veterans that has demonstrated anger is a problem for veterans of both genders as they reintegrate into civilian society, and that women may experience greater social isolation as a result of their problems with anger than men because of gendered stereotypes of about anger (Worthen, Kimerling, & Ahern, under review). Our finding is in contrast, however, to a study of civilian survivors of interpersonal assault, which found that men reported significantly elevated anger levels compared to women (Galovski, Mott, Young-Xu, & Resick, 2010).

Some limitations to our study are worth noting. First, this study did not have sufficient power to examine the relations between anger and PTSD among women service members. While we found similar associations between anger and PTSD symptom severity among men and women, further research is needed among women to give more precision to estimates of the association and to examine the association between anger and PTSD. Second, the present analysis was cross-sectional in nature and thus we are unable to establish whether anger problems developed after PTSD or whether anger problems pre-existed exposure to trauma or the development of PTSD. As there is some question in the literature about the temporality of how anger problems impact the phenomenology of PTSD (Andrews, Brewin, Rose, & Kirk, 2000; Andrews, Brewin, Stewart, Philpott, & Hejdenberg, 2009; Ehlers, Mayou, & Bryant, 1998, 2003; Feeny, Zoellner, & Foa, 2000; Forbes et al., 2008; Hawkins & Cougle, 2011; Koenen, Stellman, Stellman, & Sommer, 2003; McHugh, Forbes, Bates, Hopwood, & Creamer, 2012), it

would be useful to follow a military cohort to assess pre-trauma anger levels and to ascertain trajectories of anger response and PTSD symptomatology over time.

## **Conclusion**

These findings add to the literature demonstrating that anger is a common problem for military service members and veterans, and provide the first documentation of the relation between PTSD and anger in a representative active military population. This research extends existing knowledge by demonstrating a strong association between anger problems and PTSD caused by both civilian-related traumas and deployment-related traumas in current service members. This study is the first that we know of to separately examine these relations for civilian- and deployment-related PTSD and to examine PTSD symptom severity among women and men.

## REFERENCES

- Adler, A. B., Wright, K. M., Bliese, P. D., Eckford, R., & Hoge, C. W. (2008). A2 diagnostic criterion for combat-related posttraumatic stress disorder. *J Trauma Stress, 21*(3), 301-308.
- American Psychiatric Association DSM-5 Development. G 05 Posttraumatic Stress Disorder: Proposed Revision. Retrieved February 16, 2012, from <http://www.dsm5.org/ProposedRevisions/Pages/proposedrevision.aspx?rid=165#>
- Andrews, B., Brewin, C. R., Rose, S., & Kirk, M. (2000). Predicting PTSD symptoms in victims of violent crime: the role of shame, anger, and childhood abuse. *J Abnorm Psychol, 109*(1), 69-73.
- Andrews, B., Brewin, C. R., Stewart, L., Philpott, R., & Hejdenberg, J. (2009). Comparison of immediate-onset and delayed-onset posttraumatic stress disorder in military veterans. *J Abnorm Psychol, 118*(4), 767-777.
- Beckham, J. C., Feldman, M. E., & Kirby, A. C. (1998). Atrocities exposure in Vietnam combat veterans with chronic posttraumatic stress disorder: relationship to combat exposure, symptom severity, guilt, and interpersonal violence. *J Trauma Stress, 11*(4), 777-785.
- Brewin, C. R., Andrews, B., & Valentine, J. D. (2000). Meta-Analysis of Risk Factors for Posttraumatic Stress Disorder in Trauma-Exposed Adults. *Journal of Consulting and Clinical Psychology, 68*(5), 748-766.
- Butterfield, M. I., Forneris, C. A., Feldman, M. E., & Beckham, J. C. (2000). Hostility and functional health status in women veterans with and without posttraumatic stress disorder: a preliminary study. *J Trauma Stress, 13*(4), 735-741.
- Centers for Disease Control and Prevention (CDC). (1989). Diagnostic interview schedule (DIS). In *Health Status of Vietnam Veterans. Supplement C: Medical and Psychological Procedure Manuals and Forms* (pp. 405-499). Atlanta, GA: Centers for Disease Control and Prevention.
- Chen, P. Y., & Spector, P. E. (1992). Relationships of work stressors with aggression, withdrawal, theft and substance use: An exploratory study. *Journal of Occupational & Organizational Psychology, 65*(3), 177-184.
- Ehlers, A., Mayou, R. A., & Bryant, B. (1998). Psychological predictors of chronic posttraumatic stress disorder after motor vehicle accidents. *J Abnorm Psychol, 107*(3), 508-519.
- Ehlers, A., Mayou, R. A., & Bryant, B. (2003). Cognitive predictors of posttraumatic stress disorder in children: results of a prospective longitudinal study. *Behav Res Ther, 41*(1), 1-10.
- Elbogen, E. B., Wagner, H. R., Fuller, S. R., Calhoun, P. S., Kinneer, P. M., & Beckham, J. C. (2010). Correlates of anger and hostility in Iraq and Afghanistan war veterans. *Am J Psychiatry, 167*(9), 1051-1058.
- Evans, L., McHugh, T., Hopwood, M., & Watt, C. (2003). Chronic posttraumatic stress disorder and family functioning of Vietnam veterans and their partners. *Aust N Z J Psychiatry, 37*(6), 765-772.
- Feeny, N. C., Zoellner, L. A., & Foa, E. B. (2000). Anger, dissociation, and posttraumatic stress disorder among female assault victims. *J Trauma Stress, 13*(1), 89-100.
- Forbes, D., Bennett, N., Biddle, D., Crompton, D., McHugh, T., Elliott, P., et al. (2005). Clinical presentations and treatment outcomes of peacekeeper veterans with PTSD: preliminary findings. *Am J Psychiatry, 162*(11), 2188-2190.
- Forbes, D., Creamer, M., Hawthorne, G., Allen, N., & McHugh, T. (2003). Comorbidity as a predictor of symptom change after treatment in combat-related posttraumatic stress disorder. *J Nerv Ment Dis, 191*(2), 93-99.

- Forbes, D., Hawthorne, G., Elliott, P., McHugh, T., Biddle, D., Creamer, M., et al. (2004). A concise measure of anger in combat-related posttraumatic stress disorder. *J Trauma Stress, 17*(3), 249-256.
- Forbes, D., Parslow, R., Creamer, M., Allen, N., McHugh, T., & Hopwood, M. (2008). Mechanisms of anger and treatment outcome in combat veterans with posttraumatic stress disorder. *J Trauma Stress, 21*(2), 142-149.
- Friedman, M. J., Resick, P. A., Bryant, R. A., & Brewin, C. R. (2011). Considering PTSD for DSM-5. *Depress Anxiety, 28*(9), 750-769.
- Frueh, B. C., Henning, K. R., Pellegrin, K. L., & Chobot, K. (1997). Relationship between scores on anger measures and PTSD symptomatology, employment, and compensation-seeking status in combat veterans. *J Clin Psychol, 53*(8), 871-878.
- Galovski, T. E., Mott, J., Young-Xu, Y., & Resick, P. A. (2010). Gender differences in the clinical presentation of PTSD and its concomitants in survivors of interpersonal assault. *J Interpers Violence, 26*(4), 789-806.
- Gondolf, E. W., & Foster, R. A. (1991). Wife assault among VA alcohol rehabilitation patients. *Hosp Community Psychiatry, 42*(1), 74-79.
- Hawkins, K. A., & Cougle, J. R. (2011). Anger problems across the anxiety disorders: findings from a population-based study. *Depress Anxiety, 28*(2), 145-152.
- Hawthorne, G., Mouthaan, J., Forbes, D., & Novaco, R. W. (2006). Response categories and anger measurement: do fewer categories result in poorer measurement?: development of the DAR5. *Soc Psychiatry Psychiatr Epidemiol, 41*(2), 164-172.
- Hershcovis, M. S., Turner, N., Barling, J., Arnold, K. A., Dupre, K. E., Inness, M., et al. (2007). Predicting workplace aggression: a meta-analysis. *J Appl Psychol, 92*(1), 228-238.
- Hoge, C. W., Auchterlonie, J. L., & Milliken, C. S. (2006). Mental health problems, use of mental health services, and attrition from military service after returning from deployment to Iraq or Afghanistan. *JAMA, 295*(9), 1023-1032.
- Hoge, C. W., Castro, C. A., Messer, S. C., McGurk, D., Cotting, D. I., & Koffman, R. L. (2004). Combat duty in Iraq and Afghanistan, mental health problems, and barriers to care. *N Engl J Med, 351*(1), 13-22.
- Hoge, C. W., Terhakopian, A., Castro, C. A., Messer, S. C., & Engel, C. C. (2007). Association of posttraumatic stress disorder with somatic symptoms, health care visits, and absenteeism among Iraq war veterans. *Am J Psychiatry, 164*(1), 150-153.
- Inness, M., Leblanc, M. M., & Barling, J. (2008). Psychosocial predictors of supervisor-, peer-, subordinate-, and service-provider-targeted aggression. *J Appl Psychol, 93*(6), 1401-1411.
- Jakupcak, M., Conybeare, D., Phelps, L., Hunt, S., Holmes, H. A., Felker, B., et al. (2007). Anger, hostility, and aggression among Iraq and Afghanistan War veterans reporting PTSD and subthreshold PTSD. *J Trauma Stress, 20*(6), 945-954.
- Keen, S. M., Kutter, C. J., Niles, B. L., & Krinsley, K. E. (2008). Psychometric properties of PTSD Checklist in sample of male veterans. *J Rehabil Res Dev, 45*(3), 465-474.
- King, L. A., King, D. W., Vogt, D. S., Knight, J., & Samper, R. E. (2006). Deployment Risk and Resilience Inventory: A Collection of Measures for Studying Deployment-Related Experiences of Military Personnel and Veterans. *Military Psychology, 18*(2), 89-120.
- Koenen, K. C., Stellman, J. M., Stellman, S. D., & Sommer, J. F., Jr. (2003). Risk factors for course of posttraumatic stress disorder among Vietnam veterans: a 14-year follow-up of American Legionnaires. *J Consult Clin Psychol, 71*(6), 980-986.
- Kulkarni, M., Porter, K. E., & Rauch, S. A. (2012). Anger, dissociation, and PTSD among male veterans entering into PTSD treatment. *J Anxiety Disord, 26*(2), 271-278.

- Lasko, N. B., Gurvits, T. V., Kuhne, A. A., Orr, S. P., & Pitman, R. K. (1994). Aggression and its correlates in Vietnam veterans with and without chronic posttraumatic stress disorder. *Compr Psychiatry*, 35(5), 373-381.
- Litz, B. T., & Schlenger, W. E. (2009). PTSD in Service Members and New Veterans of the Iraq and Afghanistan Wars: A Bibliography and Critique *PTSD Research Quarterly*, 20(1), 1-8.
- McFall, M. E., Wright, P. W., Donovan, D. M., & Raskind, M. (1999). Multidimensional assessment of anger in Vietnam veterans with posttraumatic stress disorder. *Compr Psychiatry*, 40(3), 216-220.
- McHugh, T., Forbes, D., Bates, G., Hopwood, M., & Creamer, M. (2012). Anger in PTSD: Is there a need for a concept of PTSD-related posttraumatic anger? *Clin Psychol Rev*, 32(2), 93-104.
- Milliken, C. S., Auchterlonie, J. L., & Hoge, C. W. (2007). Longitudinal assessment of mental health problems among active and reserve component soldiers returning from the Iraq war. *JAMA*, 298(18), 2141-2148.
- Norris, F. H., & Hamblen, J. L. (2003). Standardized self-report measures of civilian trauma and PTSD. In J. Wilson & T. Keane (Eds.), *Assessing Psychological Trauma and PTSD: A Practitioner's Handbook*. New York: Guilford.
- Novaco, R. W. (1975). *Dimensions of anger reactions*. Irvine, CA: University of California.
- Novaco, R. W., Swanson, R. D., Gonzalez, O. I., Gahm, G. A., & Reger, M. D. (2012). Anger and postcombat mental health: Validation of a brief anger measure with U.S. Soldiers postdeployed from Iraq and Afghanistan. *Psychol Assess*.
- O'Neill, O. A., Vandenberg, R. J., Dejoy, D. M., & Wilson, M. G. (2009). Exploring relationships among anger, perceived organizational support, and workplace outcomes. *J Occup Health Psychol*, 14(3), 318-333.
- Osei-Bonsu, P. E., III, A. S., Schultz, M. R., Ryabchenko, K. A., Smith, E., Herz, L., et al. (2012). Is DSM-IV criterion A2 associated with PTSD diagnosis and symptom severity? *Journal of Traumatic Stress*, 25(4), 368-375.
- Pew Research Center. (2011). *The Military-Civilian Gap: War and Sacrifice in the Post-9/11 Era*. Washington, DC: Pew Research Center: Social and Demographic Trends. Document Number)
- Sayer, N., Noorbaloochi, S., Frazier, P., Carlson, K., Gravely, A., & Murdoch, M. (2010). Reintegration problems and treatment interests among Iraq and Afghanistan combat veterans receiving VA medical care. *Psychiatric Services*, 61(6), 589-597.
- Seal, K. H., Bertenthal, D., Miner, C. R., Sen, S., & Marmar, C. (2007). Bringing the war back home: mental health disorders among 103,788 US veterans returning from Iraq and Afghanistan seen at Department of Veterans Affairs facilities. *Arch Intern Med*, 167(5), 476-482.
- Struthers, C. W., Miller, D. L., Boudens, C. J., & Briggs, G. L. (2001). Effects of Causal Attributions on Coworker Interactions: A Social Motivation Perspective. *Basic & Applied Social Psychology*, 23(3), 169-181.
- Taft, C. T., Kaloupek, D. G., Schumm, J. A., Marshall, A. D., Panuzio, J., King, D. W., et al. (2007). Posttraumatic stress disorder symptoms, physiological reactivity, alcohol problems, and aggression among military veterans. *J Abnorm Psychol*, 116(3), 498-507.
- Taft, C. T., Schumm, J. A., Panuzio, J., & Proctor, S. P. (2008). An examination of family adjustment among Operation Desert Storm veterans. *J Consult Clin Psychol*, 76(4), 648-656.

- Taft, C. T., Street, A. E., Marshall, A. D., Dowdall, D. J., & Riggs, D. S. (2007). Posttraumatic stress disorder, anger, and partner abuse among Vietnam combat veterans. *J Fam Psychol*, 21(2), 270-277.
- Taft, C. T., Vogt, D. S., Marshall, A. D., Panuzio, J., & Niles, B. L. (2007). Aggression among combat veterans: relationships with combat exposure and symptoms of posttraumatic stress disorder, dysphoria, and anxiety. *J Trauma Stress*, 20(2), 135-145.
- Teten, A. L., Miller, L. A., Stanford, M. S., Petersen, N. J., Bailey, S. D., Collins, R. L., et al. (2010). Characterizing aggression and its association to anger and hostility among male veterans with post-traumatic stress disorder. *Mil Med*, 175(6), 405-410.
- Thomas, J. L., Wilk, J. E., Riviere, L. A., McGurk, D., Castro, C. A., & Hoge, C. W. (2010). Prevalence of mental health problems and functional impairment among active component and National Guard soldiers 3 and 12 months following combat in Iraq. *Arch Gen Psychiatry*, 67(6), 614-623.
- Thomas, S. P., & Smith, H. (2004). School connectedness, anger behaviors, and relationships of violent and nonviolent youth. *Perspectives in Psychiatric Care*, 40(4), 135-148.
- Vasterling, J. J., Proctor, S. P., Amoroso, P., Kane, R., Heeren, T., & White, R. F. (2006). Neuropsychological outcomes of army personnel following deployment to the Iraq war. *JAMA*, 296(5), 519-529.
- Weathers, F., Litz, B., Herman, D., Huska, J., & Keane, T. (1993). *The PTSD Checklist (PCL): Reliability, Validity, and Diagnostic Utility*. Paper presented at the Annual Convention of the International Society for Traumatic Stress Studies.
- Weathers, F., Litz, B., Huska, J., Keane, T., & National Center for PTSD. (1994). *PCL-M for DSM-IV*. Retrieved from.
- Wheeler, E. (2007). *Self-Reported Mental Health Status and Needs of Iraq Veterans in the Maine Army National Guard*. Portland: Community Counseling Center. Document Number)
- Worthen, M. (2011). The Relations Between Traumatic Exposures, Posttraumatic Stress Disorder, and Anger in Male and Female Veterans. *Journal of Feminist Family Therapy*, 23(3-4), 188-201.
- Worthen, M., Kimerling, R., & Ahern, J. (under review). Afghanistan and Iraq War Veterans' Difficulties with Anger: A Descriptive Study.
- Zou, G. (2003). A Modified Poisson Regression Approach to Prospective Studies with Binary Data. *American Journal of Epidemiology*, 159(7), 702-706.

Table 1: Characteristics of Study Participants

Characteristic	No. (%)	Problems with Anger (No. (%))	Civilian-Related PTSD (No. (%))	Deployment- Related PTSD (No. (%))
Total	1,293 (100)	536 (49.2)	56 (4.3)	39 (3.0)
Gender				
Male	1,036 (80.1)	519 (50.0)	42 (4.1)	36 (3.5)
Female	257 (19.9)	117 (45.5)	14 (5.4)	3 (1.2)
Age				
18 – 24 years	206 (16.1)	113 (54.9)	10 (4.9)	2 (1.0)
25 – 34 years	437 (34.3)	221 (50.1)	15 (3.4)	11 (2.5)
35 – 44 years	348 (27.3)	173 (49.7)	17 (4.9)	15 (4.3)
45 years or older	285 (22.3)	124 (43.5)	14 (4.9)	11 (3.9)
Race				
White	937 (80.6)	457 (48.8)	34 (3.6)	27 (2.9)
Non-White	225 (19.4)	104 (46.2)	13 (5.8)	5 (2.2)
Education				
High School or Less	171 (13.2)	103 (60.2)	11 (6.4)	5 (2.9)
Some College	377 (29.2)	186 (49.3)	19 (5.0)	17 (4.5)
College or More	745 (57.6)	347 (46.6)	26 (3.5)	17 (2.3)
Rank				
Enlisted	857 (73.6)	453 (52.9)	46 (5.5)	31 (3.6)
Officer or other	307 (26.4)	121 (39.4)	5 (1.6)	1 (0.3)
Marital Status				
Currently married	739 (57.2)	343 (46.4)	24 (3.2)	22 (3.0)
Not currently married	554 (42.8)	293 (52.9)	32 (5.8)	17 (3.1)

Table 2: Prevalence of Anger by PTSD Status

	No Anger Problems (No. (%))	Anger Problems (No. (%))	Total (No.)	Adjusted prevalence of anger problems (% (95% CI)) <sup>a</sup>
PTSD Status				
No PTSD	650 (53%)	569 (46%)	1219	46.0% (0.43 – 0.49)
Civilian-Related	5 (14%)	30 (86%)	35	85.0% (0.70 – 0.96)
PTSD Only				
Deployment-Related	1 (6%)	17 (94%)	18	91.3% (0.76 – 0.99)
PTSD Only				
Both Civilian- and Deployment-Related	1 (5%)	20 (95%)	21	98.6% (0.93 – 1.0)
PTSD				

<sup>a</sup> Model adjusted for age, education, race, marital status, rank, and race.



Table 3: Adjusted Prevalence Ratio of Anger Problems by PTSD Type in Men

	Adjusted Prevalence Ratio (95% CI) <sup>a</sup>
No PTSD	-
Deployment-Related PTSD	1.9 (1.6 – 2.3)*
Civilian-Related PTSD	1.7 (1.3 – 2.1)*
Both types of PTSD	1.9 (0.9 – 3.9)

<sup>a</sup> Model adjusted for age, education, race, marital status, rank, and race. \* Significant at the 0.001 level.

Table 4: Adjusted Prevalence of Anger by PTSD Symptom Severity

	Adjusted Prevalence Ratio (95% CI) <sup>a</sup>
Men	
Deployment-Related PTSD Symptom	1.3 (1.2 – 1.4)*
Severity	
Civilian-Related PTSD Symptom	1.2 (1.2 – 1.3)*
Severity	
Women	
Deployment-Related PTSD Symptom	1.5 (1.3 – 1.9)*
Severity	
Civilian-Related PTSD Symptom	1.4 (1.3 – 1.5)*
Severity	

<sup>a</sup> Model adjusted for age, education, race, marital status, rank, and race. \* Significant at the .001 level.



## **Mental Health and Service Utilization among Reserve forces**

### **Telephone Consent and Survey Questionnaire (Abt SRBI Project #4495)**

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## Mental Health and Service Utilization among Reserve forces

### NOTE ON FORMATTING:

[TEXT] indicates a comment for *interviewers/coders* to see

**[text]** indicates words to stress

Interviewer: \_\_\_\_\_

TIME START: \_\_\_\_\_ TIME END: \_\_\_\_\_ DATE: \_\_\_\_\_

### **[CELL PHONE PROTOCOL TO BE INSERTED INTO CATI PROGRAM TO ENSURE SAFETY OF RESPONDENTS AND OFFER TO CALL ON A LANDLINE PHONE]**

#### **A. Introduction**

May I speak to [NAME OF PARTICIPANT] Hello, my name is \_\_\_\_\_ and I am calling for University of Michigan and the Uniformed Services University of the Health Sciences. You should have received a letter regarding a research study that we are conducting, and I am calling to follow-up. As the letter explained, we are asking you to take part in a study about experiences of military personnel.

A1. First, are you currently at least 18 years old?

- 1 Yes [GO TO A3]
- 2 No [GO TO A2]
- 9 Refused [Go to B5]

A2. In order to participate in this study, you must be at least 18 years of age. Please tell me when you will be turning 18 and we will call you back then to schedule an interview.

- 1 Yes, okay [Schedule call back for date after birth date given]
- 9 Refused [Go to B5]

A3. Is this a good time for you to talk or would you like to make an appointment for a more convenient time?

- 1 Continue
- 2 Make Appointment
- 3 Do not wish to participate **[Go to B5]**

During this conversation I will give you important contact information that was also provided in the letter you received earlier. Please make sure that you have a way to record this information.

A4. Are you ready to continue or do you need a moment to get ready?

- 1 Continue
- 2 Need to get ready [Wait until ready]
- 3 Do not wish to participate **[Go to B5]**

## **B. Participation**

### **[Overview of Verbal Consent Procedure]:**

In the letter we mailed to you, we included a document that explained the purpose of the study, the procedures of the study and contact information. At this time I am going to review that information and make sure you understand the purpose of the study, what will be asked of you if you participate and make sure that you would like to participate.

### **[Purpose of the study]**

The title of the study is "Health and Well-being of Reserve Forces". The study has two purposes – first, it will give us an idea about how certain experiences may affect the health of Reserve Members over time, and second it may help improve the treatment available to Reserve members who may have stressful experiences while serving. The principal investigators of this study are Dr Sandro Galea at the University of Michigan and Dr Robert Ursano at the Uniformed Services University of the Health Sciences. The project is sponsored by the National Institutes of Health and the Department of Defense.

### **[Procedure]**

We will be interviewing approximately 2,000 randomly selected Reserve and Reserve members every year for 4 years. If you choose to participate in the interview today we will collect information about your family history, military history, medical history, quality of life, productivity, and your use of healthcare services. You may decline to answer any questions that you do not want to answer and you can discontinue the interview at any time if you choose to. This survey takes about 40 minutes to complete over the telephone. Agreeing to participate in the study and allowing your health information to be used is voluntary and is separate from your enlistment.

### **[Risks]**

There are no known physical risks to you for participating in this study. Psychological or emotional risks are minimal in that some of the study questions are of a sensitive nature and may make you feel uncomfortable, though we have tried to make the process as comfortable as possible. If you feel distressed during the interview, you may stop. If you feel distress and would like to speak with someone at any point during the interview we will provide you with a phone number for a health provider on call.

### **[Benefits]**

This study does not provide direct benefits to participants. If this work is successful in identifying features of deployment that are associated with better long-term mental health among military personnel, it is possible that subsequent changes in military practice will have benefits for you after a period of time and this study may one day help improve the health care of military personnel.

### **[Alternate Procedures]**

As this is not a clinical or experimental study the only alternative to participation is to not participate.

### **[Cost]**

There is no financial cost for you to participate in this study. We are offering \$25.00 for each interview completed. There will be 4 annual interviews so if you complete all of them you can earn \$100.00. We will also send \$10.00 in a mailing once a year between each of the interviews, for a total of an additional \$30.00 or \$130.00 all together for people who remain in the study all 4 years. Payment will be mailed to an address you supply at the completion of your interview

### **[Confidentiality]**

Your participation in this study is confidential. The answers to your interviews will be kept separate from your identifying information and only one file will be kept that links your answers to your identifying information. You will not be identified in any reports on this study. Records will be kept confidential to the extent provided by federal, state and local law. However, the Institutional Review Boards at the University of Michigan and of the Uniformed Services University of the Health Sciences, the sponsor of the study, and government officials responsible for monitoring this study may inspect the reports. USAMRMC are eligible to review research records to ensure the protection of human subjects. The data collected during this study may be kept for an unspecified period of time.

[Certificate of Confidentiality]

Additionally, a Certificate of Confidentiality has been obtained to help ensure the privacy of the data collected and your identity. With this Certificate, the investigators cannot be forced (for example by court subpoena) to disclose information that may identify you in any federal, state, or local civil, criminal, administrative, legislative, or other proceedings. However, the US government may wish to audit the information collected in this study to evaluate the research practices of the study. In addition, if the study staff suspects intent to harm yourself or others we will report it to the proper authorities as necessary, but we would only disclose information in your records relevant to the prevention of serious harm to the person or persons endangered.

You can choose to quit at anytime by refusing to participate in the interviews. If you complete this interview and you decide you would like to permanently be removed from the study, you may contact SRBI by email (RNGStudy@srbi.com), phone (1-888-735-0199) or send a written letter mailed to: SRBI, Inc.. Attn: Reserve Study #4495, 275 Seventh Avenue, Suite 2700, New York, New York 10001. If we are unable to reach you for an extended period of time we may have to discontinue your participation in the study.

[Contact]

You may contact the Principal Investigator at any time with any questions. He is Dr Sandro Galea and can be reached 734-763-9784.

Further information with respect to illness or injury resulting from a research procedure as well as a research subjects' rights is available from the University of Michigan Institutional Review Board at 734-936-0933 or [irbhsbs@umich.edu](mailto:irbhsbs@umich.edu).

[ASK ALL]

B1. Do you have any questions?

1 Yes, I have some questions [GO TO B2]

2 No questions [GO TO B2a]

3 No, call back at another time [ARRANGE CALLBACK]

4 I do not wish to participate [Go to B5]

B2. What questions do you have?

- |   |  |                                     |
|---|--|-------------------------------------|
| 1 | Questions answered, ready to proceed                     | <b>[GO TO B2a]</b>                  |
| 2 | Not willing to participate until contact investigator    | <b>[ARRANGE CALLBACK IN 3 DAYS]</b> |
| 3 | Not willing to participate until contact SRBI supervisor | <b>[ARRANGE CALLBACK]</b>           |
| 4 | Will do survey at another time                           | <b>[ARRANGE CALLBACK]</b>           |
| 5 | Do not wish to participate                               | <b>[Go to B5]</b>                   |
| 6 | Not willing until receive a new copy of letter           | <b>[Go to B2c]</b>                  |

B2c. I can have another copy of the letter sent to you. First let me verify that we have your current address.

This is the address that the letter was sent to: **[GO TO ADDRESS MODULE]**

Is this correct? **[CORRECT ADDRESS AS NEEDED]**

We will have a new copy of the letter sent to you and we'll get back to you in a few weeks.

**[DISPO AS LETTER REMAIL – ARRANGE CALLBACK FOR 3 WEEKS FROM NOW]**

B2a. To make sure that you understand the basic purpose of the study can you please tell me why we are doing this study?

- 1 Answer given **[RECORD TEXT BELOW AND READ B2b]**
- 2 Not sure/Don't know **[READ B2b]**
- 3 Refused **[READ B2b]**

---

B2b. (Just to be clear,) The study has two purposes – first, it will give us an idea about how certain experiences may impact Reserve Members over time, and second it may help improve the treatment available to members who may have stressful experiences while serving.

B3. Do you feel your questions have been adequately answered and that you fully understand the purpose of this research study? (Interviewer: please check “agrees” or “does not agree” corresponding to the participants answer)

- 1 Agree **[Ask B4]**
- 2 Does not agree **[Return to B2]**
- 3 Don't Know **[Return to B2]**
- 4 Refused **[Go to B5]**

B4. Do you agree to participate in this research study and begin study procedures as we have discussed?

- 1 Agree **[Go to Section C]**
- 2 Does not agree **[Go to B5]**
- 3 Don't Know **[Return to B2]**
- 4 Refused **[Go to B5]**

B5. Can you tell me why you don't wish to participate in the interview?

**[THANK AND END]**

**[CELL PHONE PROTOCOL TO BE INSERTED INTO CATI PROGRAM TO ENSURE SAFETY OF RESPONDENTS AND OFFER TO CALL ON A LANDLINE PHONE]**



**[NOTE: THIS INFO ON FAQ SHEET FOR INTERVIEWERS]**

Now, please take down the toll free number where you can call us back to complete the survey if we don't finish it all right now. We can be reached at (1-888-735-0199). Please mention the Reserve study and your survey key number – [KEY] when you call and you will be directed to the right person. As I mentioned before, this survey takes about one hour to complete. The questions are organized into sections that go together, so it works best if we can complete entire sections at one time. I will let you know periodically when we are between sections in case you need to take a break, but of course you can let me know that you need a break anytime you feel like it.

**C. Military History**

To begin with, I have some questions about your experience in the military.

C1a. Just to confirm, are you currently in the Reserve or another Reserve Component of the United States military, or are you separated or retired from the military altogether?

- 1 Currently in Reserve and/or another military Reserve Component **[CONTINUE]**
- 2 Not in the Reserves or the Guard/retired **[S/O NOT CURRENTLY ENROLLED – THANK & END]**

C1. How long have you been in the United States military, including both time on Active Duty and time in the Reserves?

[NOTE: Include time in all branches of the military AND time in the Reserves/Reserve] [Round to the nearest whole year, <6 months=0; RANGE = 0-50]

- 1 \_\_\_\_\_[Years]
- 8 [VOL] Don't know
- 9 [VOL] Refused

C1c. Have you ever served as a soldier in another branch of the United States military OUTSIDE of your time in the Reserve?

[IF ASKED: This does not include being active duty Army or Air Force while in the Reserve]

- 1 Yes [CONTINUE TO C1d]
- 2 No
- 8 [VOL] Don't know
- 9 [VOL] Refused

[IF C1c IS "NO", "DON'T KNOW" OR "REFUSED" THEN SKIP TO QUESTION C1e]

C1d. Since you first entered the United States military and besides the Reserve/Reserve or times you were active duty while in the Reserve, in what other service branches have you served? [MULTIPLE RECORD]

- 1 Air Force
- 2 Army
- 3 Coast Guard
- 4 Marine Corps
- 5 Navy
- 8 Other (SPECIFY)
- 98 [VOL] Don't know
- 99 [VOL] Refused

C1e. What age did you enter the Reserve?

- 1 \_\_\_\_\_[Years]
- 8 [VOL] Don't know
- 9 [VOL] Refused

C2. In what service branch do you currently serve? [READ CHOICES IF NEEDED]

- 1 Air Force Reserve
- 2 Air Reserve
- 3 Army Reserve
- 4 Army Reserve
- 5 Coast Guard
- 4 Marine Corps Reserve
- 6 Navy Reserve
- 7 Other (SPECIFY)
- 8 [VOL] Don't know
- 9 [VOL] Refused

C3. What is your current Pay Grade? [READ CHOICES IF NEEDED]

- 1 E1
- 2 E2
- 3 E3
- 4 E4
- 5 E5
- 6 E6
- 7 E7
- 8 E8
- 9 E9
- 10 W1
- 11 W2
- 12 W3
- 13 W4
- 14 W5
- 15 O1
- 16 O2
- 17 O3
- 18 O4
- 19 O5
- 20 O6
- 21 O7 or above [THANK AND END SURVEY]
- 22 Other: [SPECIFY: \_\_\_\_\_]
- 88 [VOL] Don't know
- 99 [VOL] Refused

C6A1. Please tell me your current MOS (Military Occupational Specialties) number and just a brief description of that role? **[ALLOW MULTIPLE RESPONSES]**

- 1 \_\_\_\_\_

- 8 [VOL] Don't know  
9 [VOL] Refused

**[IF ANSWERED "DON'T KNOW" TO C6A1, GO TO C6A2; OTHERWISE GO TO C6b]**

**C6A2. Which category best fits your MOS? [READ LIST AS NECESSARY; ALLOW MULTIPLE RESPONSES]**

- 1 Personnel and Administration
- 2 Intelligence
- 3 Infantry
- 4 Logistics
- 5 Marine Air Ground Task Force (MAGTF) Plans
- 6 Communications
- 8 Field Artillery
- 11 Utilities
- 13 Engineer, Construction, Facilities and Equipment
- 18 Tank and Assault Amphibious Vehicle
- 21 Ground Ordnance Maintenance
- 23 Ammunition and Explosive Ordnance Disposal
- 25 Operational Communications
- 26 Signals Intelligence/Ground Electronic Warfare
- 27 Linguist (Officer/Enlisted)
- 28 Ground Electronics Maintenance
- 30 Supply Administration and Operations
- 31 Traffic Management
- 33 Food Service
- 34 Financial Management
- 35 Major Transport
- 40 Data Systems
- 41 Marine Corps Exchange
- 43 Public Affairs
- 44 Legal Services
- 46 Visual Information
- 55 Music
- 57 Nuclear, Biological and Chemical Defense
- 58 Military Police and Corrections
- 59 Electronics Maintenance
- 60 60/61/62 Aircraft Maintenance
- 63 63/64 Avionics
- 65 Aviation Ordnance
- 66 Aviation Logistics
- 68 Meteorological and Oceanographic (METOC) Services
- 70 Airfield Services
- 72 Air Control/Air Support/Anti-air Warfare/Air Traffic Control
- 73 Navigation Officer and Enlisted Flight Crews
- 75 Pilots/Naval Flight Officers
- 76 Navy Officer Designators (DES) and Billet Codes (NOBC)
- 77 Navy Enlisted Classification Codes (NEC's)
- 78 8000-9599 Category "B" MOS's

- 79            9600-9699    Special Education Program  
 80            9700-9999    Identifying MOS's and Reporting MOS's
- 97            Other [SPECIFY] \_\_\_\_\_  
 98            [VOL] Don't know  
 99            [VOL] Refused

C6B. Do you know if you are going to be deployed in the future (either schedule or location)? [NOTE: When we say deployment, we mean mobilization either nationally or internationally and in any capacity]

- 1            Yes  
 2            No  
 8            [VOL] Don't Know  
 9            [VOL] Refused  
 10          [VOL] Will never be deployed again (ex. Retiring)  
**[IF "YES" THEN GO TO C7, OTHERWISE SKIP TO C10]**

C7. What month and year are you scheduled to be deployed?

- 1            \_\_\_\_/\_\_\_\_  
              M M   Y Y   Y Y            [RANGE: 1940-CURRENT OR FUTURE YEAR - 2030]  
 2            [VOL] Will never be deployed again (ex. Retiring)  
 8            [VOL] Don't Know  
 9            [VOL] Refused

C9. To which country will you be deployed? [DO NOT READ LIST]

- 1            Afghanistan  
 2            Iraq  
 3            Kuwait  
 4            Saudi Arabia  
 5            United States  
 8            Other: [SPECIFY: \_\_\_\_\_]  
 9            [VOL] Don't know  
 10          [VOL] Refused

Now I am going to ask you questions about your deployment history. By deployment I mean any mobilization, both nationally and internationally and in any capacity.

Please keep in mind that I will be asking many questions that are about experiences you may have had at any time in your life. It is important for the research that you think carefully before answering.

C10. How many times have you been deployed in the past, either in the Guard or in any other military capacity?

- 1            \_\_\_\_\_ **[RANGE 0-30]**

98 [VOL] Don't know

99 [VOL] Refused

**[IF ANSWER IS ZERO, DK or REF, GO TO C17]**

C11. Now thinking about your **most recent** deployment....

In what country did you spend the most amount of time? [DO NOT READ LIST]

1 Afghanistan

2 Iraq

3 Kuwait

4 Saudi Arabia

5 United States

8 Other: [SPECIFY: \_\_\_\_\_]

9 [VOL] Don't know

10 [VOL] Refused

C11a. Was this deployment: [READ CHOICES]

1 With your regular unit -that is, with the unit you are assigned to and train with when in a reserve status

2. As an I.M.A. (Individual Mobilization Augmentee)

3. As a "filler" to a unit other than the one you are normally assigned to

4 Or as something else? [Describe:\_\_\_\_\_]

8 [VOL] Don't know

9 [VOL] Refused

C12. On what date did you begin that deployment? [PROBE FOR MONTH AND YEAR]

1 \_\_\_\_\_/\_\_\_\_\_[**RANGE: 1940-CURRENT YEAR**]

M M Y Y Y Y

8 [VOL] Don't know

9 [VOL] Refused

C13. On what date did you finish that deployment? [PROBE FOR MONTH AND YEAR]

1 \_\_\_\_\_/\_\_\_\_\_[**RANGE: 1940-CURRENT YEAR**] [**MUST BE LATER THAN C12**]

M M Y Y Y Y

2 Deployment has not ended

8 [VOL] Don't know

9 [VOL] Refused

C14. What was your age when you began this most recent deployment?

\_\_\_\_\_[age in years] range 17-80 [if response is over 60, verify]

8 [VOL] Don't Know

9 [VOL] Refused

C15. What was your MOS (Military Occupational Specialties) number and a brief description of that role during your most recent deployment? [**ALLOW MULTIPLE RESPONSES**]

1 \_\_\_\_\_

8 [VOL] Don't know

9 [VOL] Refused

**[IF ANSWERED "DON'T KNOW" TO C15, GO TO C16; OTHERWISE GO TO C17]**

**C16. Which category best fits your MOS? [READ LIST AS NECESSARY; ALLOW MULTIPLE RESPONSES]**

- 1 Personnel and Administration
- 2 Intelligence
- 3 Infantry
- 4 Logistics
- 5 Marine Air Ground Task Force (MAGTF) Plans
- 6 Communications
- 8 Field Artillery
- 11 Utilities
- 13 Engineer, Construction, Facilities and Equipment
- 18 Tank and Assault Amphibious Vehicle
- 21 Ground Ordnance Maintenance
- 23 Ammunition and Explosive Ordnance Disposal
- 25 Operational Communications
- 26 Signals Intelligence/Ground Electronic Warfare
- 27 Linguist (Officer/Enlisted)
- 28 Ground Electronics Maintenance
- 30 Supply Administration and Operations
- 31 Traffic Management
- 33 Food Service
- 34 Financial Management
- 35 Major Transport
- 40 Data Systems
- 41 Marine Corps Exchange
- 43 Public Affairs
- 44 Legal Services
- 46 Visual Information
- 55 Music
- 57 Nuclear, Biological and Chemical Defense
- 58 Military Police and Corrections
- 59 Electronics Maintenance
- 60 60/61/62 Aircraft Maintenance
- 63 63/64 Avionics
- 65 Aviation Ordnance
- 66 Aviation Logistics
- 68 Meteorological and Oceanographic (METOC) Services
- 70 Airfield Services
- 72 Air Control/Air Support/Anti-air Warfare/Air Traffic Control
- 73 Navigation Officer and Enlisted Flight Crews
- 75 Pilots/Naval Flight Officers
- 76 Navy Officer Designators (DES) and Billet Codes (NOBC)
- 77 Navy Enlisted Classification Codes (NEC's)
- 78 8000-9599 Category "B" MOS's
- 79 9600-9699 Special Education Program
- 80 9700-9999 Identifying MOS's and Reporting MOS's
- 97 Other [SPECIFY] \_\_\_\_\_
- 98 [VOL] Don't know

**[READ ONLY IF NECESSARY]**

C17. What is your gender? [If the respondent does not immediately say Male or Female: What sex do you consider yourself to be? [INTERVIEWER: DO NOT READ CHOICES]

- 1 Male
- 2 Female
- 3 Other [SPEC:\_\_\_\_\_]
- 9 [VOL] Refused

**[IF ANSWERED 'ZERO', DK OR REF TO QUESTION C10, THEN SKIP TO SECTION E]**

## D. General Military Experience

I'm now going to continue asking you about your **most recent deployment**.

### TRAINING AND DEPLOYMENT PREPARATION

I am going to read several statements about how well prepared you were by the military for your most recent deployment, and I'd like to know how much you agree or disagree with each statement. There are 5 answer choices you can use: strongly agree, somewhat agree, somewhat disagree, strongly disagree, or neither agree nor disagree.

The (first/next) statement is [STATEMENT]. Do you agree, disagree OR do you neither agree nor disagree (3)?

[IF AGREE: Do you agree strongly (5) or agree somewhat (4)?]

[IF DISAGREE: Do you disagree strongly (1) or disagree somewhat (2)?]

(ROTATE)	Strongly disagree	Somewhat disagree	Neither agree nor disagree	Somewhat agree	Strongly agree	(VOL) DK	(VOL) RF
D1. I had all the supplies and equipment needed to get my job done.	1	2	3	4	5	8	9
D2. The equipment I was given functioned the way it was supposed to.	1	2	3	4	5	8	9
D3. I received adequate training on how to use my equipment.	1	2	3	4	5	8	9
D6. I was accurately informed about what to expect from the enemy.	1	2	3	4	5	8	9
D8. I was accurately informed of what daily life would be like during my deployment.	1	2	3	4	5	8	9



## UNIT SUPPORT

The next statement is about your relationships with other military personnel during your most recent deployment.

How much do you agree or disagree that: [STATEMENT].

Do you agree, disagree, OR do you neither agree nor disagree (3)?

[IF AGREE: Do you agree strongly (5) or agree somewhat (4)?]

[IF DISAGREE: Do you disagree strongly (1) or disagree somewhat (2)?]

(ROTATE)	Strongly disagree	Somewhat disagree	Neither agree nor disagree	Somewhat agree	Strongly agree	(VOL) DK	(VOL) RF
D11. I felt a sense of camaraderie between myself and other soldiers in my unit.	1	2	3	4	5	8	9

## LIFE & FAMILY CONCERNS

The next statement refers to concerns you may have had related to your life and family back home during your **most recent deployment**.

While you were deployed, how concerned were you about [ITEM]? Would you say not at all, a little, moderately or a great deal?

(ROTATE)	Not at all concerned	A little concerned	Moderately concerned	Concerned A great deal	(VOL) Not applicable	VOL DK	VOL RF
D34. Harming your relationship with your spouse or significant other.	1	2	3	4	5	8	9

## COMBAT EXPERIENCES

The following statements are about combat experiences you may have had during your most recent deployment.

While deployed:

\*D41a. Did you participate in active combat operations as a member of a combat unit?

1 Yes

2 No

8 [VOL] Don't know

9 [VOL] Refused

\*D41b. Did you experience combat as a member of medical staff, helicopter crew or corpse detail?

- 1 Yes
- 2 No
- 8 [VOL] Don't know
- 9 [VOL] Refused

\*D53d. Were you injured or wounded during your most recent deployment?

- 1 Yes
- 2 No
- 8 [VOL] Don't know
- 9 [VOL] Refused

D54. Next I'm going to read a list of reasons for injuries or accidents.

Please tell me which, if any, of them you experienced during your most recent deployment. [MULTIPLE RECORD FOR EACH "YES"]

- Being hit by shrapnel or a fragment
- Being hit by a bullet or receiving a gunshot wound
- A motor vehicle crash with a vehicle of any type, including a helicopter or airplane
- An explosion or blast, such as an I.E.D. (Improvised Explosive Device), R.P.G. (Rocket Propelled Grenade), Land mine, Grenade, etc.
- Being hit by a Blunt object
- A fall
- OR some other injury or accident [SPECIFY] \_\_\_\_\_
- None

**[IF NONE, DK OR REF FOR D54, SKIP TO D57]**

D54b. I recognize that these experiences may have occurred as a result of a single event or multiple events. How many separate events did you experience?

**[1-20; 21=21+; 98=Not Sure; 99= Refused]**

**[IF D54b=1 GO TO D55]**

**[READ IF D54b>1 and <4]**

Now I'd like to know more about these [# OF EVENTS FROM D54b] events **[CONTINUE TO D54c1]**.

**[READ IF D54b>3 ]**

Now I'd like to know more about some of these events. Let's start with the most serious one and then I will ask about 2 others[ **CONTINUE TO D54c1**].

D54c1. Thinking about (the worst/the next worst) of these events, please briefly describe what happened so I know how to refer to it: [enter brief description of event]

**[REPEAT D54c1 UNTIL OBTAINED BRIEF DESCRIPTION ALL D54A EVENTS (3 MAXIMUM), RANDOMLY PICK ONE D54c1 EVENT TO CONTINUE WITH]**

D54c2. Now I am only going to ask more specifically about one event. During [D54c1 RANDOMLY PICKED EVENT DESCRIPTION], which of the following did you experience? [READ LIST; **MULTIPLE RECORD**]

[READ ALL ITEMS "YES" IN D54a]

- Being hit by shrapnel or a fragment
- Being hit by a bullet or receiving a gunshot wound
- A motor vehicle crash with a vehicle of any type, including a helicopter or airplane
- An explosion or blast, such as an I.E.D. (Improvised Explosive Device), R.P.G. (Rocket Propelled Grenade), Land mine, Grenade, etc.
- Being hit by a Blunt object
- A fall
- or some other injury or accident [SPECIFY] \_\_\_\_\_

D55. Now I am going to ask you about symptoms you may have experienced after this event.

a. When this event occurred, were you dazed, confused or "seeing stars"?

- 1 Yes
- 2 No
- 8 [VOL] Don't know
- 9 [VOL] Refused

b. Was there any period of time just before the event that you did not or do not remember?

- 1 Yes
- 2 No
- 8 [VOL] Don't know
- 9 [VOL] Refused

**[IF YES]**

D55d. How long was the period of time just before the event that you did not or do not remember? How many seconds, minutes or hours was this period? \_\_\_\_\_ **[ALLOW FOR ANSWER IN SECONDS, MINUTES, OR HOURS OR DAYS]**

D55c. Was there any period of time just after the event that you did not or do not remember?

- 1 Yes
- 2 No
- 8 [VOL] Don't know
- 9 [VOL] Refused

**[IF YES]**

.D55cf How long was the period of time just after the event that you did not or do not remember? How many seconds, minutes or hours was this period? \_\_\_\_\_ **[ALLOW FOR ANSWER IN SECONDS, MINUTES, OR HOURS OR DAYS]**

D55d. Did you or do you currently have problems remembering details about the event?

- 1 Yes
- 2 No
- 8 [VOL] Don't know
- 9 [VOL] Refused

D55e. Did anyone report that you have had trouble remembering details about the event?

- 1 Yes
- 2 No
- 8 [VOL] Don't know
- 9 [VOL] Refused

D55f. During or as a result of the event, did anyone report that you lost consciousness or “blacked out?”

- 1 Yes
- 2 No
- 8 [VOL] Don't know
- 9 [VOL] Refused

D55g. And during or as a result of the event, do you remember losing consciousness or “blacking out”?

- 1 Yes
- 2 No
- 8 [VOL] Don't know
- 9 [VOL] Refused

**[IF YES TO EITHER f OR g]**

D55h. How many times did you lose consciousness during or as a result of this event? **[1-20; 21=NS; 22=Ref]**

D55i. And, thinking about all of the times when you lost consciousness during or as a result of this event, what is the LONGEST AMOUNT OF TIME during which you were unconscious? \_\_SPECIFY IN SECONDS, MINUTES OR HOURS OR DAYS \_\_\_\_\_

D55j. During this event did you hit your head?

- 1 Yes
- 2 No
- 8 [VOL] Don't know
- 9 [VOL] Refused

D55k. During this event were you wearing a helmet?

- 1 Yes
- 2 No
- 3 [VOL] Only during part of the event
- 8 [VOL] Don't know
- 9 [VOL] Refused

[ASK IF D55k=1 OR 3]

D55l. What type of helmet were you wearing? [READ LIST]

- 1 Kevlar or ACH (Advanced Combat Helmet)
- 2 Sports Helmet
- 3 Motorcycle helmet
- 4 Other [Specify] \_\_\_\_\_
- 8 [VOL] Don't know
- 9 [VOL] Refused

D56. Since this event occurred, how often have you experienced the following? [READ ITEM & ANSWER CHOICES]

	All of the time	Most of the time	Some of the time	A little of the time	Not at all	VOL Don't Know	VOL Refused
a. Headaches	1	2	3	4	5	8	9
b. Memory Problems	1	2	3	4	5	8	9
c. Nausea or Vomiting	1	2	3	4	5	8	9
d. Irritability	1	2	3	4	5	8	9
e. Ringing in the ears	1	2	3	4	5	8	9
f. Dizziness	1	2	3	4	5	8	9
g. Balance problems	1	2	3	4	5	8	9
h. Difficulty concentrating	1	2	3	4	5	8	9
i. Vision Problems	1	2	3	4	5	8	9

## DEPLOYMENT CONCERNS

Next, I have an agree-disagree statement about how you felt during your most recent deployment. The statement is [STATEMENT].

Do you agree, disagree, OR do you neither agree nor disagree (3)?

[IF AGREE: Do you agree strongly (5) or agree somewhat (4)?]

[IF DISAGREE: Do you disagree strongly (1) or disagree somewhat (2)?]

(ROTATE)	Strongly disagree	Somewhat disagree	Neither agree nor disagree	Somewhat agree	Strongly agree	VOL DK	VOL RF	VOL N/A
D88. I thought I would never survive.	1	2	3	4	5	8	9	10

## POST-DEPLOYMENT SUPPORT

We have completed the questions about your most recent deployment. The next set of statements refers to questions that are about the social support you had after your most recent deployment.

The (first/next) is [STATEMENT]. Do you agree, disagree, OR do you neither agree nor disagree (3)?

[IF AGREE: Do you agree strongly (5) or agree somewhat (4)?]

[IF DISAGREE: Do you disagree strongly (1) or disagree somewhat (2)?]

(ROTATE)	Strongly disagree	Somewhat disagree	Neither agree nor disagree	Somewhat agree	Strongly agree	(VOL) DK	(VOL) RF
D109. The reception I received when I returned	1	2	3	4	5	8	9

from my deployment made me feel appreciated for my efforts.							
D110. The American people made me feel at home when I returned.	1	2	3	4	5	8	9
D111. When I returned, people made me feel proud to have served my country in the Armed Forces.	1	2	3	4	5	8	9
D113. People at home just don't understand what I have been through while in the Armed Forces.	1	2	3	4	5	8	9
D114. There are people to whom I can talk about my deployment experiences.	1	2	3	4	5	8	9
D115. The people I work with respect the fact that I am a veteran.	1	2	3	4	5	8	9

## E. Health History

E1. Turning to your health, in general, would you say your health is: [READ CHOICES]

- 1 Excellent
- 2 Very good
- 3 Good
- 4 Fair
- 5 Poor
- 8 [VOL] Don't know
- 9 [VOL] Refused

## G. Psychosocial Resources

These next statements refer to social support you have felt you received in the **past 12 months** and I'd like to know how much you agree or disagree with each statement.

The (first/next) is [STATEMENT]. Do you agree, disagree, OR do you neither agree nor disagree (3)?

[IF AGREE: Do you agree strongly (5) or agree somewhat (4)?]

[IF DISAGREE: Do you disagree strongly (1) or disagree somewhat (2)?]

<b>ROTATE</b>	Strongly disagree	Somewhat disagree	Neither agree nor disagree	Somewhat agree	Strongly agree	(VOL) DK	(VOL) RF
G1. I am carefully listened to and understood by family members or friends.	1	2	3	4	5	8	9

G2. Among my friends or relatives, there is someone who makes me feel better when I am feeling down.	1	2	3	4	5	8	9
G3. I have problems that I can't discuss with family or friends.	1	2	3	4	5	8	9
G4. Among my friends or relatives, there is someone I go to when I need good advice.	1	2	3	4	5	8	9
G5. My friends or relatives would lend me money if I needed it.	1	2	3	4	5	8	9
G6. My friends or relatives would help me move my belongings if I needed to.	1	2	3	4	5	8	9
G7. The neighborhood where I currently live is a close-knit or unified neighborhood.	1	2	3	4	5	8	9

## H. General traumas

Next I am going to read a series of statements that refer to events you may have experienced at any time in **your lifetime**. It is important for the research that you think carefully before answering.

a) IN YOUR LIFETIME, have you...[READ EACH ITEM]

[IF C10>0, IMMEDIATELY ASK FOR ANY “YES”]

b) Was that related to your **most recent** military deployment? [YES, NO, BOTH (MORE THAN ONE INSTANCE), DK, REF]

	a. In your lifetime, have you:				(IF C10>0) b. Was that related to <b>your most recent</b> military deployment?		
<b>DO NOT ROTATE</b>	Yes	No	(Vol) DK	(Vol) Ref	Yes	No	Vol Both
*H1. Experienced combat or exposure to a war zone in the military or as a civilian	1	2	8	9	1	2	3
*H 2. Been in a fire or explosion	1	2	8	9	1	2	3
* H 3. Been raped	1	2	8	9	1	2	3
* H 4. Experienced another kind of sexual assault or unwanted sexual contact as a result of force, threat of harm, or manipulation	1	2	8	9	1	2	3
* H 5. Been shot or stabbed	1	2	8	9	1	2	3
* H 6. Been held captive, tortured, or kidnapped	1	2	8	9	1	2	3
* H 7. Been mugged, held up, or threatened with a weapon	1	2	8	9	1	2	3
* H 8. Been badly beaten up	1	2	8	9	1	2	3
* H 9. Been in a serious transportation accident (for example a serious car or motor vehicle crash, boat accident, plane crash or train wreck).	1	2	8	9	1	2	3
* H 10. Experienced any other kind of serious accident or injury	1	2	8	9	1	2	3
* H 11. Experienced a natural disaster – for example, a fire, flood, earthquake – in which you were hurt or your property was damaged	1	2	8	9	1	2	3
* H 12. Been diagnosed with a life-threatening illness	1	2	8	9	1	2	3
* H 13. Had a child of yours diagnosed as having a life-threatening illness	1	2	8	9	1	2	3
* H 14. Witnessed someone being killed or seriously injured	1	2	8	9	1	2	3
* H 15. Unexpectedly discovered a dead body	1	2	8	9	1	2	3
* H 16. Learned that a close friend or relative was raped or sexually assaulted	1	2	8	9	1	2	3
* H 17. Learned that a close friend or relative was seriously physically attacked	1	2	8	9	1	2	3
* H 18. Learned that a close friend or relative was seriously injured in a motor vehicle crash	1	2	8	9	1	2	3
* H 19. Learned that a close friend or relative was	1	2	8	9	1	2	3



seriously injured in any other accident							
* H 20. Experienced the sudden, unexpected death of a close friend or relative	1	2	8	9	1	2	3
* H 21. Caused serious injury, harm or death to someone else							
* H 22. Witnessed severe human suffering	1	2	8	9	1	2	3
H 23. Experienced mental illness personally or the mental illness of someone close to you	1	2	8	9	1	2	3
H 24. Had a parent who had a problem with drugs or alcohol	1	2	8	9	1	2	3
H 25. Had a family member other than a parent with a serious drug or alcohol problem	1	2	8	9	1	2	3
H 26. Been through a divorce or “break up” with a partner or significant other	1	2	8	9	1	2	3
H 27. Lost your job	1	2	8	9	1	2	3
H 28. Been emotionally mistreated – for example, shamed, embarrassed, ignored, or repeatedly told you were no good	1	2	8	9	1	2	3
H 29. Seen or heard physical fighting between your parents or caregivers, for example, grabbed, slapped, or had something thrown, kicked, bitten, hit with a fist, or hit with something hard, or threatened with, or hurt by, a knife or gun?	1	2	8	9	1	2	3
H 30. Experienced stressful legal problems – for example, being sued or suing someone else	1	2	8	9	1	2	3
H 31. Been unemployed and seeking employment for at least 3 months	1	2	8	9	1	2	3
H 32. Had serious financial problems	1	2	8	9	1	2	3
*H 33. Had a serious operation	1	2	8	9	1	2	3
H 34. Been Robbed or had your home broken into	1	2	8	9	1	2	3
* H 35. Been exposed to toxic substances , for example, dangerous chemicals or radiation	1	2	8	9	1	2	3
H 36. Had problems getting access to adequate healthcare	1	2	8	9	1	2	3
*H 37. Experienced any other extraordinarily stressful situation or event	1	2	8	9	1	2	3

**CATI NOTE: IF RESPONDENT DOES NOT RECALL OR WILL NOT SAY WHAT THE OTHER STRESSFUL SITUATION OR EVENT WAS, DO NOT INCLUDE IN THE LIST OF TRAUMAS FOR FOLLOW-UP QUESTIONS.**

**[IF ‘YES’ TO H37]**

H37a. Can you briefly describe what that was?

---

## **TRAUMA LIST FOR FOLLOW-UP QUESTIONS**

- \*1. Experienced combat or exposure to a war zone in the military or as a civilian
- \*2. Been in a fire or explosion
- \*3. Been raped
- \*4. Experienced another kind of sexual assault or unwanted sexual contact as a result of force, threat of harm, or manipulation
- \*5. Been shot or stabbed
- \*6. Been held captive, tortured, or kidnapped
- \*7. Been mugged, held up, or threatened with a weapon
- \*8. Been badly beaten up
- \*9. Been in a serious transportation accident (for example a serious car or motor vehicle crash, boat accident, plane crash or train wreck).
- \*10. Experienced any other kind of serious accident or injury
- \*11. Experienced a natural disaster – for example, a fire, flood, earthquake – in which you were hurt or your property was damaged
- \*12. Been diagnosed with a life-threatening illness
- \*13. Had a child of yours diagnosed as having a life-threatening illness
- \*14. Witnessed someone being killed or seriously injured
- \*15. Unexpectedly discovered a dead body
- \*16. Learned that a close friend or relative was raped or sexually assaulted
- \*17. Learned that a close friend or relative was seriously physically attacked
- \*18. Learned that a close friend or relative was seriously injured in a motor vehicle crash
- \*19. Learned that a close friend or relative was seriously injured in any other accident
- \*20. Experienced the sudden, unexpected death of a close friend or relative
- \*21. Caused serious injury, harm or death to someone else
- \*22. Witnessed severe human suffering
- \*33. Had a serious operation
- \*35. Been exposed to toxic substances (like dangerous chemicals or radiation)
- \*37. Experienced any other extraordinarily stressful situation or event

## **[CREATE COUNT OF \*D ITEMS ANSWERED AFFIRMATIVELY (YES, OR ANY EXPOSURE). LIST AS POSSIBLE DEPLOYMENT-RELATED TRAUMAS IN J28 PER INSTRUCTIONS]**

(IF \*D41a=1) Experiencing combat as a member of a combat unit

(IF \*D41b=1) Experiencing combat as a member of a medical team, helicopter crew or being on corpse detail

(IF \*D53d=1) Being injured or wounded during most recent deployment

## INSTRUCTIONS

IF ANY YES \*H<sub>a</sub> TRAUMA QUESTIONS, CREATE TWO LISTS: DEPLOYMENT RELATED TRAUMAS AND NON-DEPLOYMENT RELATED TRAUMAS. ITEMS ANSWERED 'BOTH' IN b SHOULD APPEAR IN BOTH LISTS.

CREATE TWO RANDOM SELECTIONS FROM EACH LIST FOR J1 NON-DEPLOYMENT AND J28 DEPLOYMENT RELATED

IF THERE ARE ZERO NON-DEPLOYMENT RELATED TRAUMAS, GO TO Q.J28

IF ONLY 1 NON-DEPLOYMENT RELATED TRAUMA, GO TO Q.J2

IF MORE THAN 1 NON-DEPLOYMENT RELATED TRAUMA, GO TO Q.J1

AFFIRMATIVE ANSWERS TO \* D ITEMS SHOULD APPEAR IN THE DEPLOYMENT-RELATED TRAUMA LIST PER INSTRUCTIONS BELOW

### J. Post-Traumatic Stress Disorder

Now, please consider the lifetime events we just discussed.

[IF THERE IS ONLY ONE NON-DEPLOYMENT RELATED TRAUMA, SELECT IT AND SKIP TO J2]

J1. Of the events we just discussed that were not deployment-related, which event would you consider the worst?

[\*H1a- \*H37a RANDOM PICK1], OR

[\*H1a-H37a RANDOM PICK2], OR

one of the other non-deployment related events you experienced?

[PROBE: Would you like me to read the list of items you mentioned?]

1

98 [VOL] Don't know

99 [VOL] Refused

[LIST NON-DEPLOYMENT EVENTS ANSWERED 'YES' FROM \*H1a-\*H37a TRAUMA QUESTIONS]

[CATI: IF J1=DK/REF RANDOMLY SELECT A NON-DEPLOYMENT-RELATED EVENT ANSWERED 'YES' FROM \*H1a-\*H37A]

[CATI: DEFINE "WORST NON-DEPLOYMENT RELATED TRAUMA" AS ANSWER TO J1 OR SINGLE NON-DEPLOYMENT EVENT CODED FROM \*H1a-\*H37a TRAUMA QUESTIONS]

J2. During approximately what year did this event -- [WORST N-D TRAUMA] -- occur?

[PROBE: Your best estimate is fine.] [IF THERE WAS MORE THAN ONE OCCURRENCE OF THE EVENT, THEN PROBE: Thinking about the WORST time this happened, what year was it? IF THE EVENT WAS ONGOING, PROBE: Thinking about the WORST time during this period, what year was it?]

1

[4 DIGIT YEAR]

8 [VOL] Don't know

9 [VOL] Refused

[ASK IF YEAR REPORTED IN J2=STARTING YEAR OF MOST RECENT DEPLOYMENT IN C12]

J3. Was this before or after you left on your most recent deployment?

- 1 Before
- 2 After
- 3 (VOL) During
- 8 (VOL) Not sure
- 9 (VOL) Refused

Now I'm going to ask you about different thoughts and feelings you may have had because of this event --  
[WORST N-D TRAUMA].

J4. When this event occurred, did you feel terrified?

- 1 Yes
- 2 No
- 8 [VOL] Don't know
- 9 [VOL] Refused

J5. When this event occurred, did you feel helpless?

- 1 Yes
- 2 No
- 8 [VOL] Don't know
- 9 [VOL] Refused

[CATI NOTE: Display the event at the top of each screen for reference]

Now I'm going to ask you about problems and complaints you may have had because of this event. Please tell me how much you were ever bothered by each of these problems in relation to this stressful experience.

READ IN ORDER	Not at all	A little bit	Moderately	Quite a bit	Extremely	(VOL) DK	(VOL) RF
J6. How much were you ever bothered by: Repeated, disturbing memories, thoughts, or images of this stressful experience? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J7. How much were you ever bothered by: Repeated, disturbing dreams of this stressful experience? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J8. How much were you ever bothered by: Suddenly acting or feeling as if this stressful experience were happening again (as if you were reliving it)? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J9. How much were you ever bothered by: Feeling very upset when something reminded you of this stressful experience? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J10. How much were you ever bothered by: Having physical reactions such as heart pounding, trouble breathing, sweating when something reminded you of this stressful experience? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J11. How much were you ever bothered by:	1	2	3	4	5	8	9

Avoiding thinking about or talking about this stressful experience or avoiding having feelings related to it? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)							
J12. How much were you ever bothered by: Avoiding activities or situations because they reminded you of this stressful experience? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J13. How much were you ever bothered by: Trouble remembering important parts of this stressful experience? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J14. How much were you ever bothered by: Loss of interest in activities that you used to enjoy (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J15. How much were you ever bothered by: Feeling distant or cut off from other people? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J16. How much were you ever bothered by: Feeling emotionally numb or being unable to have loving feelings for those close to you? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J17. How much were you ever bothered by: Feeling as if your future will somehow be cut short? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J18. How much were you ever bothered by:	1	2	3	4	5	8	9

Trouble falling or staying asleep? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)							
J19. How much were you ever bothered by: Feeling irritable or having angry outbursts? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J20. How much were you ever bothered by: Having difficulty concentrating? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J21. How much were you ever bothered by: Being "super-alert" or watchful or on guard? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J22. How much were you ever bothered by: Feeling jumpy or easily startled? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9

**[IF ANY J6 – J22 > 1 EXCLUDING DON'T KNOW OR REFUSED, GO TO J23, OTHERWISE GO TO J28.]**

J23. How difficult did these problems make it for you to do your work, take care of things at home, or get along with other people? Would you say READ CHOICES]?

- 1 Not difficult at all
- 2 Somewhat difficult
- 3 Very difficult
- 4 Extremely difficult
- 8 [VOL] Don't know
- 9 [VOL] Refused

J23a. When you had several of these bad moods, feelings, and memories, how distressing was it for you? Was it [READ CHOICES]?

- 1 Not at all distressing
- 2 Mildly distressing
- 3 Moderately distressing
- 4 Severely distressing
- 8 [VOL] Don't know
- 9 [VOL] Refused

**[ASK J24 ONLY IF MORE THAN ONE QJ6-QJ22 ANSWERED 2-6, OTHERWISE GO TO J25]**

J24. Did these experiences or feelings you've had ever seem to go together or happen at the same time?

- 1 Yes
- 2 No
- 8 [VOL] Don't know
- 9 [VOL] Refused

J25. How soon after this stressful experience did you start to have any of these problems you've mentioned?  
[READ CHOICES IF NEEDED TO PROBE]

- 1 Same day
- 2 That week
- 3 Within 30 days
- 4 Within 6 months
- 5 Within 1 year
- 6 More than 1 year
- 8 [VOL] Don't know
- 9 [VOL] Refused

J26. What was the longest period of time during which you were having these problems? [READ CHOICES IF NEEDED TO PROBE]

- 1 Less than 1 month
- 2 Between 1 and 3 months
- 3 Between 3 and 6 months
- 4 Between 6 months and 1 year
- 5 More than 1 year
- 8 [VOL] Don't know
- 9 [VOL] Refused

J27. When was the most recent time that you had any of these problems as a result of this stressful experience? [READ CHOICES IF NEEDED TO PROBE]

- 1 Within the last week
- 2 Within the last 30 days
- 3 Over a month ago, but within the past 3 months,
- 4 Over 3 months ago, but within the past 6 months,
- 5 Over 6 months ago, but within the past 12 months,
- 6 More than 12 months ago
- 8 [VOL] Don't know
- 9 [VOL] Refused

**CATI INSTRUCTIONS**

**IF NEVER DEPLOYED (C10=0), GO TO SECTION K**

**IF ANY DEPLOYMENT-RELATED EVENTS REPORTED IN \*Hb1-\*Hb37 or \*D SERIES, ASK J28, OTHERWISE ASK J29**



## DEPLOYMENT-RELATED PTSD

Now, please think about stressful experiences you have had in your lifetime that that were **deployment-related**.

[IF THERE IS ONLY ONE DEPLOYMENT- RELATED TRAUMA, SELECT IT AND SKIP TO INSTRUCTIONS AT J30]

J28. You mentioned that you experienced stressful events related to your most recent deployment such as  
[\*H1a-H37a RANDOM PICK1],OR  
[\*H1a-H37a RANDOM PICK2],

. [IF SUM(D\*ITEMS)>0, READ: You also told us earlier that you experienced other events during your most recent deployment such as  
[\*D RANDOM PICK1], OR  
[\*D RANDOM PICK2]

Thinking about these deployment-related events we have already discussed or some other deployment-related event, which event would you consider the worst? [PROBE: Would you like me to read the list of items you mentioned?]

**[CATI: SHOW ALL TRAUMAS IN THE LIST FROM \*H1b-\*H37b & \*D ITEMS & \*D ITEMS + OTHER]**

1 \_\_\_\_\_  
97 OR SOME OTHER EVENT RELATED TO YOUR MOST RECENT DEPLOYMENT? (SPECIFY)  
98 [VOL] Don't know  
99 [VOL] Refused

[CATI: IF J28 IS "DK" OR "REF" RANDOMLY SELECT TRAUMA FROM LIST OF DEPLOYMENT RELATED EVENTS FROM \*H1b-\*H37b & \*D ITEMS – EXCLUDE "WORST NON-DEPLOYMENT RELATED TRAUMA" FROM THIS RANDOM SELECTION]

**[ASK J29 ONLY IF NO DEPLOYMENT TRAUMAS FROM \*H1b-\*H37b AND \*D ITEMS]**

J29. Have you experienced any extraordinarily stressful events that were related to your most recent deployment that we have not asked you about?

1 Yes (SPECIFY)  
2 No **[SKIP TO NEXT SECTION]**  
98 (VOL) Not sure **[SKIP TO NEXT SECTION]**  
99 (VOL) Refused **[SKIP TO NEXT SECTION]**

**DEFINE “WORST DEP TRAUMA” AS ANSWER TO J28 or J29. IF “WORST DEP TRAUMA” IN J28 IS THE SAME AS “WORST NON-DEP TRAUMA”, ASK J30 OTHERWISE SKIP TO J31:**

J30. We just discussed your experiences and feelings about [WORST NON-DEP TRAUMA] as not being deployment-related. Was there a different time this occurred when it was related to your deployment, or are you referring to the same event as being the worst deployment-related experience you have had?

1 Different event **[CONTINUE]**

2 Same event **[IF J28>1 RE-ASK J28 BUT REMOVE WORST NON-DEP TRAUMA FROM LIST, OTHERWISE SKIP TO SECTION K]**

8 Not sure **[CONTINUE]**

9 Refused **[SKIP TO NEXT SECTION]**

J31. During approximately what year did event [WORST DEP TRAUMA] occur?  
[PROBE: Your best estimate is fine.] [IF THERE WAS MORE THAN ONE OCCURRENCE OF THE EVENT, THEN PROBE: Thinking about the worst time this happened, what year was it?

1 \_\_\_\_\_[4 DIGIT YEAR]

8 [VOL] Don't know

9 [VOL] Refused

Now I'm going to ask you about different thoughts and feelings you may have had because of [WORST DEP TRAUMA].

J31a. When this event occurred, did you feel terrified?

1 Yes

2 No

8 [VOL] Don't know

9 [VOL] Refused

J31b. When this event occurred, did you feel helpless?

1 Yes

2 No

8 [VOL] Don't know

9 [VOL] Refused

[CATI NOTE: Display the event at the top of each screen for reference] Now I'm going to ask you about problems and complaints you may have had because of this event that was related to your deployment. Please tell me how much you were ever bothered by each of these problems in relation to this stressful experience.

READ IN ORDER	Not at all	A little bit	Moderately	Quite a bit	Extremely	(VOL) DK	(VOL) RF
J32. How much were you ever bothered by: Repeated, disturbing memories, thoughts, or images of this stressful experience? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J33. How much were you ever bothered by: Repeated, disturbing dreams of this stressful experience? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J34. How much were you ever bothered by: Suddenly acting or feeling as if this stressful experience were happening again as if you were reliving it? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J35. How much were you ever bothered by: Feeling very upset when something reminded you of this stressful experience? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J36. How much were you ever bothered by: Having physical reactions, such as heart pounding, trouble breathing, sweating when something reminded you of this stressful experience? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J37. How much were you ever bothered by: Avoiding thinking about or talking about this stressful experience or avoiding having feelings related to	1	2	3	4	5	8	9

it? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)							
J38. How much were you ever bothered by: Avoiding activities or situations because they reminded you of this stressful experience? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J39. How much were you ever bothered by: Trouble remembering important parts of this stressful experience? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J40. How much were you ever bothered by: Loss of interest in activities that you used to enjoy? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J41. How much were you ever bothered by: Feeling distant or cut off from other people? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J42. How much were you ever bothered by: Feeling emotionally numb or being unable to have loving feelings for those close to you? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J43. How much were you ever bothered by: Feeling as if your future will somehow be cut short? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J44. How much were you ever bothered by: Trouble falling or staying asleep? (Would you say not at all, a little bit,	1	2	3	4	5	8	9

moderately, quite a bit, or extremely?)							
J45. How much were you ever bothered by: Feeling irritable or having angry outbursts? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J46. How much were you ever bothered by: Having difficulty concentrating? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J47. How much were you ever bothered by: Being "super-alert" or watchful or on guard? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J48. How much were you ever bothered by: Feeling jumpy or easily startled? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9

**[IF ANY OF QUESTIONS J32-J48 > 1 EXCLUDING DON'T KNOW OR REFUSED, GO TO J49; OTHERWISE GO TO NEXT SECTION.]**

J49. How difficult did these problems make it for you to do your work, take care of things at home, or get along with other people? Would you say [READ CHOICES]?

- 1 Not difficult at all
- 2 Somewhat difficult
- 3 Very difficult
- 4 Extremely difficult
- 8 [VOL] Don't know
- 9 [VOL] Refused

J49a. When you had several of these bad moods, feelings, and memories, how distressing was it for you? Was it [READ CHOICES]?

- 1 Not at all distressing
- 2 Mildly distressing
- 3 Moderately distressing
- 4 Severely distressing
- 8 [VOL] Don't know
- 9 [VOL] Refused

**[ASK J50 ONLY IF MORE THAN ONE QJ32-QJ48 ANSWERED 2-5 – ELSE GO TO J51]**

J50. Did these experiences or feelings you've had ever seem to go together or happen at the same time?

- 1 Yes
- 2 No
- 8 [VOL] Don't know
- 9 [VOL] Refused

J51. How soon after this stressful experience did you start to have any of these problems you've mentioned?  
[READ CHOICES IF NEEDED TO PROBE]

- 1 Same day
- 2 That week
- 3 Within 30 days
- 4 Within 6 months
- 5 Within 1 year
- 6 More than 1 year
- 8 [VOL] Don't know
- 9 [VOL] Refused

J52. What was the longest period of time during which you were having these problems? [READ CHOICES IF NEEDED TO PROBE]

- 1 Less than 1 month
- 2 Between 1 and 3 months
- 3 Between 3 and 6 months
- 4 Between 6 months and 1 year
- 5 More than 1 year
- 8 [VOL] Don't know
- 9 [VOL] Refused

J53. When was the most recent time you had any of these problems as a result of this stressful experience?  
[READ CHOICES IF NEEDED TO PROBE]

- 1 Within the last week
- 2 Within the last 30 days
- 3 Over a month ago, but within the past 3 months,
- 4 Over 3 months ago, but within the past 6 months,
- 5 Over 6 months ago, but within the past 12 months,
- 6 More than 12 months ago
- 8 [VOL] Don't know
- 9 [VOL] Refused

## K. Depression

The next questions are about ways you may have been feeling or may have behaved.

Ka. In your lifetime, did you ever have a period of at least two weeks during which you were bothered by [ITEM]?

Yes

No

(VOL) Don't know

(VOL) Refused

[IF 'YES' to a , ASK b and c]

b. When this occurred, were you bothered by this problem: [READ LIST]

c. Did this occur during the past 30 days, or not?

	a. In your lifetime, did you ever have a period of at least two weeks during which you were bothered by		b. When this occurred, were you bothered by this problem: [READ LIST]				c. Did this occur during the past 30 days, or not?	
[DO NOT SHUFFLE ITEMS]	Yes	No	Several days	More than half the days	Nearly every day	(vol) DK/REF	Yes	No
K1. Little interest or pleasure in doing things.	1	2	1	2	3	8/9	1	2
K2. Feeling down, depressed, or hopeless	1	2	1	2	3	8/9	1	2
K3. Trouble falling or staying asleep, OR sleeping too much	1	2	1	2	3	8/9	1	2
K4. Feeling tired or having little energy	1	2	1	2	3	8/9	1	2
K5. Poor appetite OR overeating	1	2	1	2	3	8/9	1	2
K6. Feeling bad about yourself – or that you are a failure or have let yourself or your family down	1	2	1	2	3	8/9	1	2
K7. Trouble concentrating on things, such as reading the newspaper or watching television	1	2	1	2	3	8/9	1	2
K8. Moving or speaking so slowly that other people could have noticed? Or the opposite – being so fidgety or restless that you have been moving around a lot more than usual	1	2	1	2	3	8/9	1	2
K9. Thoughts that you would be better off dead or of hurting yourself in some way	1	2	1	2	3	8/9	1	2

**[IF 'YES' TO ANY QUESTIONS K1-K9 GO TO K10; OTHERWISE GO TO K14.]**

K10. How difficult have these problems ever made it for you to do your work, take care of things at home, or get along with other people? Would you say [READ CHOICES]

[NOTE: READ ONLY IF NEEDED: "these problems" refers to problems that you mentioned being bothered by in just the past several questions which were about how you were feeling or may have behaved.]

- 1 Not difficult at all
- 2 Somewhat difficult
- 3 Very difficult
- 4 Extremely difficult
- 8 [VOL] Don't know
- 9 [VOL] Refused

**[ASK IF MORE THAN 1 'YES' TO K1-K9 – ELSE SKIP TO K11a]**

K11. Did these experiences or feelings you've had ever seem to go together or happen at the same time?

- 1 Yes
- 2 No
- 8 [VOL] Don't know
- 9 [VOL] Refused

K11a. What was the longest period of time during which you were having these problems? [READ CHOICES IF NEEDED TO PROBE]

- 1 Less than 1 month
- 2 Between 1 and 3 months
- 3 Between 3 and 6 months
- 4 Between 6 months and 1 year
- 5 More than 1 year
- 8 [VOL] Don't know
- 9 [VOL] Refused

K12. At what age did you first begin to have these problems?

\_\_\_\_\_ [AGE; RANGE 5-97] [98 = DON'T KNOW; 99 = REFUSE]

**[IF K12 IS <13, PROBE:]**

K12a When you say [ANSWER], is that how old you were at the time?

Yes [CONTINUE]

No [RETURN TO K12 FOR NEW RESPONSE]

[If ANSWER to K12 is same as ANSWER from C14 PLUS OR MINUS ONE YEAR go to K12b, otherwise go to K13]

K12b. Did this start before, after or during your most recent deployment?

- 1 Before
- 2 After
- 3 During
- 8 [VOL] Don't know
- 9 [VOL] Refused



K13. When was the most recent time that you had any of these problems? [READ CHOICES IF NEEDED TO PROBE]

- 1 Within the last week
- 2 Within the last 30 days
- 3 Over a month ago, but within the past 3 months,
- 4 Over 3 months ago, but within the past 6 months,
- 5 Over 6 months ago, but within the past 12 months,
- 6 More than 12 months ago
- 8 [VOL] Don't know
- 9 [VOL] Refused

[ASK ALL]

K14. Have you ever been diagnosed by a physician or health professional with...

a. Posttraumatic stress disorder (P.T.S.D.)

- 1 Yes
- 2 No
- 8 [VOL] Don't know
- 9 [VOL] Refused

a1. [If C10>0] Was this before, since or both before and since your most recent deployment?

- 1 BEFORE
- 2 SINCE
- 3 BOTH
- 7 [VOL] During
- 8 [VOL] Don't know
- 9 [VOL] Refused

b. Depression

- 1 Yes
- 2 No
- 8 [VOL] Don't know
- 9 [VOL] Refused

b1. [If C10>0] Was this before, since or both before and since your most recent deployment?

- 1 BEFORE
- 2 SINCE
- 3 BOTH
- 7 [VOL] During
- 8 [VOL] Don't know
- 9 [VOL] Refused

c. Anxiety Disorder

- 1 Yes
- 2 No
- 8 [VOL] Don't know
- 9 [VOL] Refused

c1. [If C10>0] Was this before, since or both before and since your most recent deployment?

- 1 BEFORE
- 2 SINCE
- 3 BOTH
- 7 [VOL] During
- 8 [VOL] Don't know
- 9 [VOL] Refused

## W. Risky Health Behaviors

Next, I am now going to ask about driving...

W1. How often do you use seat belts when you drive or ride in a car? Would you say: [READ CHOICES]

- 1 Always
- 2 Nearly always
- 3 Sometimes
- 4 Seldom
- 5 Never
- 6 [VOL] Never ride in a car
- 8 [VOL] Don't Know
- 9 [VOL] Refused

IF ANSWER TO W1 IS "NEVER RIDE IN A CAR" THEN SKIP TO W 7

W2. In the past 30 days, how many times have you driven when you've had perhaps too much to drink?

\_\_\_\_ Number of times [0-30]

- 31 31+
- 98 [VOL] Don't Know
- 99 [VOL] Refused

## M. Cigarette Use

Next, I have a few questions about cigarettes...

M1a. At any point in your life, did you smoke cigarettes on at least some days?

- 1 Yes **[ASK M1b]**
- 2 No **[SKIP TO NEXT SECTION]**
- 8 [VOL] Don't know **[SKIP TO NEXT SECTION]**
- 9 [VOL] Refused **[SKIP TO NEXT SECTION]**

M1b. At any point in your life, did you smoke cigarettes everyday?

- 1 Yes
- 2 No
- 8 [VOL] Don't know
- 9 [VOL] Refused

M1c. Thinking about just the past 30 days... Out of the past 30 days, how many days did you smoke cigarettes? Your best estimate is fine.

- 1 \_\_\_\_ Days used out of 30 **[0-30]**
- 98 [VOL] Don't Know
- 99 [VOL] Refused

**[ASK IF M1c IS 1 OR GREATER]**

M1d. In the past 30 days, on those days when you smoked, on average, how many cigarettes did you smoke per day? Your best estimate is fine and a pack = 20.

- 1        \_\_\_ \_\_\_ Cigarettes per day **[0-60]**
- 61      61 cigarettes or more
- 98      [VOL] Don't Know
- 99      [VOL] Refused

**N. Alcohol**

The next series of questions is about drinking alcohol beverages like beer, wine or liquor...

N1. At any point in your lifetime did you ever drink alcohol?

- 1        Yes
- 2        No
- 8        [VOL] Don't know
- 9        [VOL] Refused

**[IF "YES", GO TO NEXT QUESTION; OTHERWISE GO TO NEXT SECTION.]**

N19. Thinking about just the **past 30 days**, on how many days did you drink any alcoholic beverages? Your best estimate is fine.

- 1        \_\_\_ \_\_\_ Days used of out 30 **[0-30]**
- 98      [Vol] Don't Know
- 99      [Vol] Refuse

**[IF N19 IS 1 DAYS OR GREATER, GO TO N20; OTHERWISE GO TO NEXT SECTION.]**

N20. A drink is 1 can or bottle of beer, 1 glass of wine, 1 can or bottle of wine cooler, 1 cocktail, or 1 shot of liquor. On the days when you drank alcohol over the **past 30 days**, on average, how many drinks did you have each day? Your best estimate is fine.

- 1        \_\_\_ \_\_\_ Drinks per day **[0-19]**
- 20      20 drinks or more
- 98      [VOL] Don't Know
- 99      [VOL] Refused

## **R. Use of Mental Health Services**

Now I'm going to ask you about your past use of services that help with problems with emotions or nerves, or problems with the use of alcohol or drugs.

R8g. Did you ever in your lifetime go to see any professionals or self-help groups such as a physician, psychiatrist, psychologist, minister, priest, rabbi or other spiritual advisor, Alcoholics Anonymous or Narcotics Anonymous for problems with your emotions or nerves, or for problems with your use of alcohol or drugs?

- 1 Yes
- 2 No
- 8 [VOL] Don't Know
- 9 [VOL] Refused

### **[ASK R10b If "YES" TO R8g AND C10>1]**

R10b. Were any of these visits related to your most recent deployment?

- 1 Yes
- 2 No
- 8 [VOL] Don't Know
- 9 [VOL] Refused

### **[ASK R10c If "YES" IN R8g AND R10b="Yes"]**

R10c. How soon did you seek help after your most recent deployment? [READ LIST IF NEEDED]

- 1 Within the week after
- 2 Within 30 days
- 3 Over a month, but within 3 months,
- 4 Over 3 months, but within 6 months,
- 5 Over 6 months, but within 12 months,
- 6 More than 12 months after
- 8 [VOL] Don't know
- 9 [VOL] Refused

### **[ASK R11 If "YES" TO ANY QUESTIONS IN R8]**

R11. Were any of these services provided by the military, Tricare and/or the V.A. (Veterans' Administration)

[NOTE: This includes referrals to other locations which were made and covered by the military, Tricare or V.A.]?

- 1 Yes
- 2 No
- 8 [VOL] Don't know
- 9 [VOL] Refused

## S. DEMOGRAPHICS

This series of questions is for statistical purposes only, to help us analyze the results of the study.

S1. First, please tell me your date of birth.

- 1 [INTERVIEWER: ENTER IN MM/DD/YYYY FORMAT. EX: JANUARY 2, 1965=01/02/1965]  
[CATI: ALLOW FOR AGES 17 AND OLDER]

\_\_\_\_/\_\_\_\_/\_\_\_\_  
M M D D Y Y Y Y

- 9 [VOL] Refused [SKIP TO S1b]

S1a. So you are [xx] years old, correct?

- 1 Yes [GO TO S2]  
2 No [GO BACK TO S1]  
9 [VOL] Refused [GO TO S1b]

S1b. Can you just tell me into which of the following categories your age falls?

- 1 18 to 24  
2 25 to 34  
3 35 to 44  
4 45 to 54  
5 55 to 64  
6 65 or older  
9 [VOL] Refused

S2. What is your current marital status? Are you: [PLEASE READ EACH CHOICE EXCEPT FOR "DON'T KNOW" OR REFUSED; **MULTIPLE ANSWERS ALLOWED**]

- 1 Married [GO TO S3]  
2 Divorced  
3 Separated  
4 Widowed  
5 Never been married  
8 [VOL] Don't know  
9 [VOL] Refused [GO TO S3]

S2a. Are you currently in a committed relationship, dating casually, or not seeing anyone?

- 1 committed relationship  
2 dating casually  
3 not seeing anyone  
4 [VOL] Other [SPEC: \_\_\_\_\_]  
8 [VOL] Don't know  
9 [VOL] Refused

S3. Are you the parent or primary caretaker of any children who are under 18 years of age (whether they live with you or not)?

- 1 Yes  
2 No  
8 [VOL] Don't know  
9 [VOL] Refused

IF YES TO S3 go to S3b, OTHERWISE GO TO S4

S3b. How many of these children are living with you currently?

\_\_\_\_\_ NUMBER

**[DO NOT INCLUDE A DON'T KNOW OR REFUSED CODE]**

S4. What kind of health care coverage do you currently have to pay for your health care expenses? Are you covered by: [READ LIST AND SELECT ALL THAT APPLY]

1. Your civilian employer's healthcare plan
2. Your spouse or family member's civilian employer's plan
3. Your school's healthcare plan
4. Health insurance coverage you or your family pay for yourself
5. Medicare
6. Medicaid
7. Tri-care
8. Your spouse or family member's Tri-care, active duty or retired military healthcare coverage
9. the Veterans Administration (VA)
- 10 Some other kind of health care coverage [SPECIFY: \_\_\_\_\_]
- 11 or, do you have no health care insurance?
- 98 [VOL] Don't know
- 99 [VOL] Refused

S5. Are you of Spanish or Hispanic origin?

- 1 Yes
- 2 No **[GO TO S7]**
- 8 [VOL] Don't know **[GO TO S7]**
- 9 [VOL] Refused **[GO TO S7]**

S6. Specifically, what country did most of your Spanish or Hispanic family come from? [PROBE FOR A SINGLE ANSWER, **ALLOW ONLY ONE RESPONSE**]

- 1 Argentina
- 2 Bolivia
- 3 Brazil
- 4 Chile
- 5 Columbia
- 6 Costa Rica
- 7 Cuba
- 8 Dominican Republic
- 9 Ecuador
- 10 El Salvador
- 11 Guatemala
- 12 Honduras
- 13 Mexico
- 14 Nicaragua
- 15 Panama
- 16 Puerto Rico
- 17 Spain
- 18 Venezuela
- 19 Other [SPEC]

- 98 [VOL] Don't know  
99 [VOL] Refused

S7. How would you describe your racial background? Would you describe yourself as:  
[READ CHOICES] [IF MORE THAN ONE RACE CODE "OTHER, SPECIFY"]

- 1 Asian  
2 Black or African American  
3 American Indian or Alaska Native  
4 Native Hawaiian or Other Pacific Islander  
5 White  
6 [VOL] Other [SPEC: \_\_\_\_\_]  
7 [VOL] Hispanic  
8 [VOL] Don't know  
9 [VOL] Refused

S8. What is the highest level of education or schooling you have completed?  
[READ CHOICES ONLY IF NEEDED]

- 1 Never attended school  
2 Kindergarten to 8<sup>th</sup> grade  
3 Some high school (9<sup>th</sup> to 11<sup>th</sup> grade)  
4 High school equivalency (GED)  
5 High school graduate (12<sup>th</sup> grade)  
6 Technical training (not including military training)  
7 Some college  
8 College graduate (4-year)  
9 Graduate work  
10 Graduate degree  
98 [VOL] Don't know  
99 [VOL] Refused

S9. Do you rent your home or own your home? [IF "LIVING WITH FAMILY" PROBE: IS THE HOME YOU LIVE IN OWNED OR RENTED?]

- 1 Rent home  
2 Own home (includes paying mortgage)  
3 Neither  
8 [VOL] Don't know  
9 [VOL] Refused

S10. And now, what was your total household income last year from all sources before taxes? Include your income and income from anyone else living in your household. Do not tell me the amount. Please just tell me the answer that best represents your household income.

[IF HESITANT: Income data is important in analyzing health information we collect. For example, the information helps us learn whether people in one income group have particular difficulties accessing different services they might need.]

[F NECESSARY] Include income from jobs, investments, public assistance, unemployment insurance, social security, disability and pension funds, and all other sources?

Was it: [READ LETTER AND RANGE]

- 1 A, Less than or equal to \$40,000 [GO TO S10a]  
2 B, More than \$40,000 to \$80,000 [GO TO S10b]

- 3 C, More than \$80,000 [GO TO S10c]  
8 [VOL] Don't know [GO TO S13]  
9 [VOL] Refused [GO TO S13]  
[PROBE: Your best estimate is fine.]

S10a. Was that: [READ LETTER AND RANGE]

- 1 A, Less than or equal to \$20,000 or  
2 B, More than \$20,000  
8 [VOL] Don't know  
9 [VOL] Refused

[GO TO S13]

S10b. Was that: [READ LETTER AND RANGE]

- 1 A, Less than or equal to \$60,000, or  
2 B, More than \$60,000  
8 [VOL] Don't know  
9 [VOL] Refused

[GO TO S13]

S10c. Was that: [READ LETTER AND RANGE]

- 1 A, Less than or equal to \$100,000  
2 B, More than \$100,000 to \$150,000, or  
3 C, More than \$150,000  
8 [VOL] Don't know  
9 [VOL] Refused

S13a. Now I have some questions about your current work situation. For each choice, tell me whether or not it applies to you. **[SELECT ALL THAT APPLY]** Are you...

- 1 Working full-time in a civilian job  
2 Working part-time in a civilian job  
3 Working full-time for the Guard or Reserve  
4 Working part time for the Guard or Reserve  
5 Looking for work or unemployed  
6 Retired  
7 A homemaker  
8 A student  
9 On maternity or paternity leave  
10 On illness or sick leave  
11 On disability  
12 Other (SPECIFY: \_\_\_\_\_)  
98 [VOL] Don't know  
99 [VOL] Refused

**ASK S14 IF WORKING FULL TIME (1) OR PART TIME (2) IN A CIVILIAN JOB IN S13a]**

S14. As an official part of your civilian job, do you supervise the work of other employees, that is have responsibility for, or tell other employees what to do?

- 1 Yes  
2 No  
8 [VOL] Don't know  
9 [VOL] Refused



**ASK S14a IF WORKING FULL TIME (3) OR PART TIME (4) FOR GUARD/RESERVE IN S13a]**

S14a. As an official part of your job with the Guard or Reserve, do you supervise the work of other employees, that is have responsibility for, or tell other employees what to do?

- 1 Yes
- 2 No
- 8 [VOL] Don't know
- 9 [VOL] Refused

**T. Counseling/Conclusion**

T1. Thank you for completing the survey. Before I go, I have just a few more things to take care of, including getting some information so that we can send you the check for \$25 that we mentioned at the beginning of the survey. First, I would just like to give you our toll-free number in case you have any additional questions about the project or you need to get in touch with us later on.

T2. Would you like to write our number down? It is 1-888-735-0199.

- 1 Accepts number
- 2 Does not want the number

T2a. And, if you have any questions regarding your rights as a research participant, you may call the University of Michigan Institutional Review Board. Would you like to write the number down? That number is 734-936-0933.

- 1 Accepts number
- 2 Does not want the number

T3. Now, I just need to verify your name and address so that we can send you your check. [INTERVIEWER: IF RESPONDENT ASKS YOU TO SEND THE MONEY TO A CHARITY, SAY: That is a good idea, but the study protocol requires that I send the check to the person who completes the survey. Then, of course, you can send it along to whatever charity you prefer.]

- 1 Will give address/accept check **[GO TO ADDRESS MODULE]**
- 2 Decline address/decline check

**[IF DECLINE CHECK]**

T4. Then just let me verify your address. Having this information will make it easier to contact you in about a year to conduct the next follow-up interview or to send you information on the other parts of the study.

- 1 Will give address **[GO TO ADDRESS MODULE]**
- 2 Decline address

[ASK ALL]

T5. Email is a good way for us to keep in touch and inform you about our next upcoming survey. Do you have an email address?

YES, WILL GIVE EMAIL **[CAPTURE EMAIL ADDRESS]**  
NO – DO NOT HAVE EMAIL  
REFUSED TO GIVE EMAIL

T6. Having contact information for someone who always knows how to get in touch with you will also make it easier for us to keep in touch and inform you about our next upcoming survey. Is there someone who always knows how to get in touch with you?

Yes, will give information **[ask for first & last name & phone]**  
No, no contacts **[SKIP TO T8]**  
Refused **[SKIP TO T8]**

T7. Is there a second person who always knows how to get in touch with you?

Yes, will give information **[ask for first & last name & phone]**  
No, no contacts **[SKIP TO T8]**  
Refused **[SKIP TO T8]**

Okay, we're almost done. I have just one more thing to take care of before I go.

T8. Some of the questions in this survey can be upsetting or stressful. Were any of the survey questions emotionally upsetting to you?

1 Yes **[ASK T9]**  
2 No **[GO TO T10a]**

T9. Are you still feeling emotionally upset or are you okay now?

1 Still upset **[ASK T10]**  
2 Feeling okay now **[GO TO T10a]**

T10. If you would like to talk to someone about how you are feeling, I can have someone call you. Would you like our on call counselor to call you?

1 Yes **[GO TO T11]**  
2 No **[GO TO T10a]**

[IF K9c= "YES," READ T10a and ASK T10a – ELSE SKIP TO T16]

T10a. Earlier in the survey you mentioned having thoughts within the past 30 days that you would be better off dead or of hurting yourself in some way. If you would like to talk to someone about these thoughts, I can have someone call you. Would you like our on call counselor to call you?

1 Yes **[GO TO T11]**  
2 No **[GO TO T16]**

T11. Do you need a counselor to get back to you (today/this evening) or can I have someone call you (tomorrow/Monday) during regular business hours?

1 Need someone to call today/tonight  
2 Would like someone to call tomorrow/Monday

T12. What is your name?

T12fn. RECORD first name

---

T12ln. RECORD last name

---

T12ph. What number should we call you back on?

---

T12st. And, where do you live? I need to provide the counselor with your name, address, and telephone number to be sure we are able to reach you. This information will only be used by the counselor to contact you.

RECORD street name and number

---

T12town. RECORD town

---

T12state. RECORD state

---

T12zip. RECORD zip code

---

T12co. RECORD any interviewer comments

---

Okay, I will have someone get back to you soon.

[NOTE TO INTERVIEWER: IF RESPONDENT WANTS TO TALK TO A DOCTOR TODAY/TOMORROW/MONDAY, NOTIFY YOUR SUPERVISOR NOW!]

[CATI – DISPLAY A NOTIFICATION SCREEN TO PROMPT SUPERVISOR FOR ANY COUNSELING REQUESTS]

T16. As a final note, we want to remind you that we will be calling again to follow-up on how you are doing about once a year. If you change your telephone number or address in the meantime, you can let us know about it by calling the toll free number I provided earlier. This information will be provided in the envelope with your check.

[RECORD CODE 2 ONLY IF PERSON SAYS NOT TO CALL AGAIN]

1 Continue

2 [VOL] Does not want to be called again

Thank you for your participation in this survey. Have a great day/evening.

## CELL PHONE PROTOCOL

Some respondents will supply a phone number in response to the advance letters and they may turn out to be cell phones.

Update phone number needs to be available on the tipresp menu, and updating needs to be enabled in the script where indicated in the following questions.

---

**[CATI: ADD THESE QUESTIONS TO THE SCRIPT IMMEDIATELY AFTER THE RESPONDENT INTRODUCTION]**

P1. Is this number that I called you on a cell phone?

(If asked why: I just want to offer to call you on a land-line phone, or at a time when you are not driving if this is a cell phone)

Yes (GO TO P2)

No (SKIP TO A)

REFUSAL - SOFT (SOFT REFUSAL - THANK & END)

REFUSAL - HARD (HARD REFUSAL - THANK & END)

P2. Is there a land line where you would prefer me to call to conduct the interview?

Yes (UPDATE PHONE TO LAND LINE & SCHEDULE CB)

No, continue on cell phone

REFUSAL – SOFT (SOFT REFUSAL - THANK & END)

REFUSAL - HARD (HARD REFUSAL - THANK & END)

P3. Are you currently driving, or someplace else where it IS NOT safe to talk on your cell phone?

YES/CALL ME LATER (SCHEDULE CALLBACK)

No, respondent can talk now

REFUSAL – SOFT (SOFT REFUSAL - THANK & END)

REFUSAL - HARD (HARD REFUSAL - THANK & END)

P4. Is now a good time to talk?

**(INTERVIEWER: IF EVENINGS / WEEKENDS ARE BETTER BECAUSE RESPONDENT IS NOT CHARGED FOR CELL USAGE, SCHEDULE CALLBACK AND RECORD COMMENTS)**

Yes, now is fine (CONTINUE TO A1a)

No, another time is better (SCHEDULE CALLBACK & record comments about best call times)

REFUSAL – SOFT (SOFT REFUSAL - THANK & END)

REFUSAL - HARD (HARD REFUSAL - THANK & END)



## **Mental Health and Service Utilization among Reserve forces**

### **Telephone Consent and Survey Questionnaire (Abt SRBI Project #4495)**

#### **Table of Contents**

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[NOTES TO CATI PROGRAMMER: SET TIME STAMPS FOR EACH LETTERED SECTION

LABEL ALL VARIABLE NAMES STARTING WITH THE LETTER "W2" TO DISTINGUISH AS YEAR TWO]

## Mental Health and Service Utilization among Reserve forces

### NOTE ON FORMATTING:

[TEXT] indicates a comment for *interviewers/coders* to see

**[text]** indicates words to stress

Interviewer: \_\_\_\_\_

TIME START: \_\_\_\_\_ TIME END: \_\_\_\_\_ DATE: \_\_\_\_\_

### **[CELL PHONE PROTOCOL TO BE INSERTED INTO CATI PROGRAM TO ENSURE SAFETY OF RESPONDENTS AND OFFER TO CALL ON A LANDLINE PHONE]**

#### **A. Introduction**

May I speak to [NAME OF PARTICIPANT] Hello, my name is \_\_\_\_\_ and I am calling for Columbia University and the Uniformed Services University of the Health Sciences. You should have received a letter regarding the next year of this study that we are conducting, and I am calling to follow-up. As the letter explained, we are asking you to take part in the next year of the study about experiences of military personnel.

A1. First, are you currently at least 18 years old?

- 1 Yes [GO TO A3]
- 2 No [GO TO A2]
- 9 Refused [Go to B5]

A2. In order to participate in this study, you must be at least 18 years of age. Please tell me when you will be turning 18 and we will call you back then to schedule an interview.

- 1 Yes, okay [Schedule call back for date after birth date given]
- 9 Refused [Go to B5]

A3. Is this a good time for you to talk or would you like to make an appointment for a more convenient time?

- 1 Continue
- 2 Make Appointment
- 3 Do not wish to participate **[Go to B5]**

During this conversation I will give you important contact information that was also provided in the letter you received earlier. Please make sure that you have a way to record this information.

A4. Are you ready to continue or do you need a moment to get ready?

- 1 Continue
- 2 Need to get ready [Wait until ready]
- 3 Do not wish to participate **[Go to B5]**

## **B. Participation**

### **[Overview of Verbal Consent Procedure]:**

In the letter we mailed to you, we included a document that explained the purpose of the study, the procedures of the study and contact information. At this time I am going to review that information and make sure you understand the purpose of the study, what will be asked of you if you participate and make sure that you would like to participate.

### **[Purpose of the study]**

The title of the study is "Health and Well-being of Reserve Forces". The study has two purposes – first, it will give us an idea about how certain experiences may affect the health of Reserve Members over time, and second it may help improve the treatment available to Reserve members who may have stressful experiences while serving. The principal investigators of this study are Dr Sandro Galea at Columbia University, formerly at the University of Michigan, and Dr Robert Ursano at the Uniformed Services University of the Health Sciences. The project is sponsored by the National Institutes of Health and the Department of Defense.

### **[Procedure]**

To better understand the experiences of the Reserve, we will be re-interviewing the members who participated in the baseline survey, every year for the next 3 years. If you choose to participate in the interview today we will collect information about your family history, military history, medical history, quality of life, productivity, and your use of healthcare services. You may decline to answer any questions that you do not want to answer and you can discontinue the interview at any time if you choose to. This survey takes about 40 minutes to complete over the telephone. Agreeing to participate in the study and allowing your health information to be used is voluntary and is separate from your enlistment.

### **[Risks]**

There are no known physical risks to you for participating in this study. Psychological or emotional risks are minimal in that some of the study questions are of a sensitive nature and may make you feel uncomfortable, though we have tried to make the process as comfortable as possible. If you feel distressed during the interview, you may stop. If you feel distress and would like to speak with someone at any point during the interview we will provide you with a phone number for a health provider on call.

### **[Benefits]**

This study does not provide direct benefits to participants. If this work is successful in identifying features of deployment that are associated with better long-term mental health among military personnel, it is possible that subsequent changes in military practice will have benefits for you after a period of time and this study may one day help improve the health care of military personnel.

### **[Alternate Procedures]**

As this is not a clinical or experimental study the only alternative to participation is to not participate.

### **[Cost]**

There is no financial cost for you to participate in this study. We are offering \$25.00 for each interview completed. There will be 3 more annual interviews so if you complete all of them you can earn \$100.00. We will also send \$10.00 in a mailing once a year between each of the interviews, for a total of an additional \$30.00 or \$130.00 all together for people who remain in the study all 4 years. Payment will be mailed to an address you supply at the completion of your interview

### **[Confidentiality]**



Your participation in this study is confidential. The answers to your interviews will be kept separate from your identifying information and only one file will be kept that links your answers to your identifying information. You will not be identified in any reports on this study. Records will be kept confidential to the extent provided by federal, state and local law. However, the Institutional Review Boards at the Columbia University and of the Uniformed Services University of the Health Sciences, the sponsor of the study, and government officials responsible for monitoring this study may inspect the reports. USAMRMC are eligible to review research records to ensure the protection of human subjects. The data collected during this study may be kept for an unspecified period of time.

[Certificate of Confidentiality]

Additionally, a Certificate of Confidentiality has been obtained to help ensure the privacy of the data collected and your identity. With this Certificate, the investigators cannot be forced (for example by court subpoena) to disclose information that may identify you in any federal, state, or local civil, criminal, administrative, legislative, or other proceedings. However, the US government may wish to audit the information collected in this study to evaluate the research practices of the study. In addition, if the study staff suspects intent to harm yourself or others we will report it to the proper authorities as necessary, but we would only disclose information in your records relevant to the prevention of serious harm to the person or persons endangered.

You can choose to quit at anytime by refusing to participate in the interviews. If you complete this interview and you decide you would like to permanently be removed from the study, you may contact SRBI by email (RNGStudy@srbi.com), phone (1-888-735-0199) or send a written letter mailed to: SRBI, Inc.. Attn: Reserve and Study #4495, 275 Seventh Avenue, Suite 2700, New York, New York 10001. If we are unable to reach you for an extended period of time we may have to discontinue your participation in the study.

[Contact]

You may contact the Principal Investigator at any time with any questions. He is Dr Sandro Galea and can be reached 212 305 8755.

Further information with respect to illness or injury resulting from a research procedure as well as a research subjects' rights is available from the Columbia University Institutional Review Board at 212-305-5883. The address is 722 West 168th Street, 4th Floor, New York, NY 10032

[ASK ALL]

B1. Do you have any questions?

- |   |                               |                    |
|---|-------------------------------|--------------------|
| 1 | Yes, I have some questions    | [GO TO B2]         |
| 2 | No questions                  | [GO TO B2a]        |
| 3 | No, call back at another time | [ARRANGE CALLBACK] |
| 4 | I do not wish to participate  | [Go to B5]         |

B2. What questions do you have?

- |   |  |                                     |
|---|--|-------------------------------------|
| 1 | Questions answered, ready to proceed                     | <b>[GO TO B2a]</b>                  |
| 2 | Not willing to participate until contact investigator    | <b>[ARRANGE CALLBACK IN 3 DAYS]</b> |
| 3 | Not willing to participate until contact SRBI supervisor | <b>[ARRANGE CALLBACK]</b>           |
| 4 | Will do survey at another time                           | <b>[ARRANGE CALLBACK]</b>           |
| 5 | Do not wish to participate                               | <b>[Go to B5]</b>                   |
- a new copy of letter [Go to B2c]

B2c. I can have another copy of the letter sent to you. First let me verify that we have your current address.

This is the address that the letter was sent to: **[GO TO ADDRESS MODULE]**

Is this correct? **[CORRECT ADDRESS AS NEEDED]**

We will have a new copy of the letter sent to you and we'll get back to you in a few weeks.

**[DISPO AS LETTER REMAIL – ARRANGE CALLBACK FOR 3 WEEKS FROM NOW]**

B2a. To make sure that you understand the basic purpose of the study can you please tell me why we are doing this study?

- 1 Answer given **[RECORD TEXT BELOW AND READ B2b]**
- 2 Not sure/Don't know **[READ B2b]**
- 3 Refused **[READ B2b]**

---

B2b. (Just to be clear,) The study has two purposes – first, it will give us an idea about how certain experiences may impact Reserve Members over time, and second it may help improve the treatment available to members who may have stressful experiences while serving.

B3. Do you feel your questions have been adequately answered and that you fully understand the purpose of this research study? (Interviewer: please check “agrees” or “does not agree” corresponding to the participants answer)

- 1 Agree **[Ask B4]**
- 2 Does not agree **[Return to B2]**
- 3 Don't Know **[Return to B2]**
- 4 Refused **[Go to B5]**

B4. Do you agree to participate in this research study and begin study procedures as we have discussed?

- 1 Agree **[Go to Section C]**
- 2 Does not agree **[Go to B5]**
- 3 Don't Know **[Return to B2]**
- 4 Refused **[Go to B5]**

B5. Can you tell me why you don't wish to participate in the interview?

**[THANK AND END]**

**[CELL PHONE PROTOCOL TO BE INSERTED INTO CATI PROGRAM TO ENSURE SAFETY OF RESPONDENTS AND OFFER TO CALL ON A LANDLINE PHONE]**

**[NOTE: THIS INFO ON FAQ SHEET FOR INTERVIEWERS]**

Now, please take down the toll free number where you can call us back to complete the survey if we don't finish it all right now. We can be reached at (1-888-735-0199). Please mention the Reserve study and your survey key number – [KEY] when you call and you will be directed to the right person. As I mentioned before, this survey takes about one hour to complete. The questions are organized into sections that go together, so it works best if we can complete entire sections at one time. I will let you know periodically when we are between sections in case you need to take a break, but of course you can let me know that you need a break anytime you feel like it.

**C. Military History**

To begin with, I have some questions about your experience in the military.

C1a. Just to confirm, are you currently in the Reserve Component of the United States military, or are you separated or retired from the military altogether?

- 1 Currently in military Reserve Component **[CONTINUE]**
- 2 Not in the Reserves or retired **[CONTINUE]**

C1. How long have you been in the United States military, including both time on Active Duty and time in the Reserves?

[NOTE: Include time in all branches of the military AND time in the Reserves] [Round to the nearest whole year, <6 months=0; RANGE = 0-50]

- 1 \_\_\_\_\_[Years]
- 8 [VOL] Don't know
- 9 [VOL] Refused

C1c. Since we last spoke, have you ever served as a soldier in another branch of the United States military OUTSIDE of your time in the Reserve?

[IF ASKED: This does not include being active duty Army or Air Force while in the Reserve]

- 1 Yes [CONTINUE TO C1d]
- 2 No
- 8 [VOL] Don't know
- 9 [VOL] Refused

[IF C1c IS "NO", "DON'T KNOW" OR "REFUSED" THEN SKIP TO QUESTION C1e]

C1d. Since you we last spoke and besides the Reserve or times you were active duty while in the Reserve, in what other service branches have you served? [MULTIPLE RECORD]

- 1 Air Force
- 2 Army
- 3 Coast Guard
- 4 Marine Corps
- 5 Navy
- 8 Other (SPECIFY)
- 98 [VOL] Don't know
- 99 [VOL] Refused

C2. In what service branch do you currently serve? [READ CHOICES IF NEEDED]

- 1 Air Force Reserve
- 2. Air National Guard
- 3 Army Reserve
- 4 Army National Guard
- 5 Coast Guard
- 4 Marine Corps Reserve
- 6 Navy Reserve
- 7 Other (SPECIFY)
- 8 [VOL] Don't know
- 9 [VOL] Refused

[C3 REVISED Based on DOD request for no rank information]

C3. What is your current Pay Grade? [READ CHOICES IF NEEDED]

- 1 E1
- 2 E2
- 3 E3
- 4 E4
- 5 E5
- 6 E6
- 7 E7
- 8 E8
- 9 E9
- 10 W1
- 11 W2
- 12 W3
- 13 W4
- 14 W5
- 15 O1
- 16 O2
- 17 O3
- 18 O4
- 19 O5
- 20 O6
- 21 O7 or above [THANK AND END SURVEY]
- 22 Other: [SPECIFY: \_\_\_\_\_]
- 88 [VOL] Don't know
- 99 [VOL] Refused

C6A1. Please tell me your current MOS (Military Occupational Specialties) number and just a brief description of that role? **[ALLOW MULTIPLE RESPONSES]**

- 1 \_\_\_\_\_
- 8 [VOL] Don't know
- 9 [VOL] Refused

**[IF ANSWERED "DON'T KNOW" TO C6A1, GO TO C6A2; OTHERWISE GO TO C6b]**

**C6A2. Which category best fits your MOS? [READ LIST AS NECESSARY; ALLOW MULTIPLE RESPONSES]**

- 1 Personnel and Administration
- 2 Intelligence
- 3 Infantry
- 4 Logistics
- 5 Marine Air Ground Task Force (MAGTF) Plans
- 6 Communications
- 8 Field Artillery
- 11 Utilities
- 13 Engineer, Construction, Facilities and Equipment
- 18 Tank and Assault Amphibious Vehicle
- 21 Ground Ordnance Maintenance
- 23 Ammunition and Explosive Ordnance Disposal
- 25 Operational Communications
- 26 Signals Intelligence/Ground Electronic Warfare
- 27 Linguist (Officer/Enlisted)
- 28 Ground Electronics Maintenance
- 30 Supply Administration and Operations
- 31 Traffic Management
- 33 Food Service
- 34 Financial Management
- 35 Major Transport
- 40 Data Systems
- 41 Marine Corps Exchange
- 43 Public Affairs
- 44 Legal Services
- 46 Visual Information
- 55 Music
- 57 Nuclear, Biological and Chemical Defense
- 58 Military Police and Corrections
- 59 Electronics Maintenance
- 60 60/61/62 Aircraft Maintenance
- 63 63/64 Avionics
- 65 Aviation Ordnance
- 66 Aviation Logistics
- 68 Meteorological and Oceanographic (METOC) Services
- 70 Airfield Services
- 72 Air Control/Air Support/Anti-air Warfare/Air Traffic Control
- 73 Navigation Officer and Enlisted Flight Crews
- 75 Pilots/Naval Flight Officers
- 76 Navy Officer Designators (DES) and Billet Codes (NOBC)
- 77 Navy Enlisted Classification Codes (NEC's)
- 78 8000-9599 Category "B" MOS's
- 79 9600-9699 Special Education Program
- 80 9700-9999 Identifying MOS's and Reporting MOS's
- 97 Other [SPECIFY] \_\_\_\_\_

- 98 [VOL] Don't know
- 99 [VOL] Refused

C6B. Do you know if you are going to be deployed in the future (either schedule or location)? [NOTE: When we say deployment, we mean mobilization either nationally or internationally and in any capacity]

- 1 Yes
  - 2 No
  - 8 [VOL] Don't Know
  - 9 [VOL] Refused
  - 10 [VOL] Will never be deployed again (ex. Retiring)
- [IF "YES" THEN GO TO C7, OTHERWISE SKIP TO C10]**

C7. What month and year are you scheduled to be deployed?

- 1    /                   [RANGE: 1940-CURRENT OR FUTURE YEAR - 2030]
- 2 [VOL] Will never be deployed again (ex. Retiring)
- 8 [VOL] Don't Know
- 9 [VOL] Refused

C9. To which country will you be deployed? [DO NOT READ LIST]

- 1 Afghanistan
- 2 Iraq
- 3 Kuwait
- 4 Saudi Arabia
- 5 United States
- 8 Other: [SPECIFY: \_\_\_\_\_]
- 9 [VOL] Don't know
- 10 [VOL] Refused

Now I am going to ask you questions about your deployment history. By deployment I mean any mobilization, both nationally and internationally and in any capacity.  
Please keep in mind that I will be asking many questions that are about experiences you may have had at any time in your life. It is important for the research that you think carefully before answering.

C10. How many times have you been deployed in the past, either in the Reserve or in any other military capacity?

- 1 \_\_\_\_\_ [RANGE 0-30] [IF ANSWER IS ZERO, DK or REF, GO TO C17]
- 98 [VOL] Don't know
- 99 [VOL] Refused

**(For each of the deployments ask C10a – C10e)**

**[CATI: there is no cap on iterations could be up to max deployment range of 30]**

C10a. In what year did this deployment end?

1            Y Y Y Y            [RANGE: 1940 – CURRENT YEAR]

9998 [VOL] Don't Know

9999 [VOL] Refused

C10c. Were you deployed to a combat setting?

1        Yes

2        No

8        [VOL] Don't Know

9        [VOL] Refused

Now thinking about your (second/third/fourth, etc.) deployment....

**[REPEAT C10a and C10c for all deployments]**

[NOTE: IF LAST DEPLOYMENT ENDED PRIOR TO 2010, SKIP TO C17]

Now, thinking about your most recent deployment in 2010,

C10g. Did that deployment happen since we last spoke in [MONTH] of [YEAR]?

1        Yes

2        No

8        [VOL] Don't Know

9        [VOL] Refused

**(If C10g = "Yes" then go to C11a, otherwise skip to C17)**

**[DUMMY VARIABLE NAMED C10gFLG ADDED:**

**IF C10g = "Yes", C10gFLG = "1. DEPLOYED SINCE LAST SURVEY;**

**IF C10g = "No", "Don't Know", "Refused" OR BLANK, C10gFLG = "2. NOT DEPLOYED SINCE LAST SURVEY"**

C11. Now thinking about your **most recent** deployment....

In what country did you spend the most amount of time? [DO NOT READ LIST]

1        Afghanistan

2        Iraq

3        Kuwait

4        Saudi Arabia

5        United States

8        Other: [SPECIFY: \_\_\_\_\_]

9        [VOL] Don't know

10       [VOL] Refused

C11a. Was this deployment: [READ CHOICES]

1        With your regular unit -that is, with the unit you are assigned to and train with when in a reserve status

2.       As an I.M.A. (Individual Mobilization Augmentee)

3.       As a "filler" to a unit other than the one you are normally assigned to

4        Or as something else? [Describe:\_\_\_\_\_]

- 8 [VOL] Don't know  
9 [VOL] Refused

C12. On what date did you begin that deployment? [PROBE FOR MONTH AND YEAR]

1      /                               [RANGE: 1940-CURRENT YEAR]

M M Y Y Y Y

- 8 [VOL] Don't know  
9 [VOL] Refused

C13. On what date did you finish that deployment? [PROBE FOR MONTH AND YEAR]

1      /                               [RANGE: 1940-CURRENT YEAR] [MUST BE LATER THAN C12]

M M Y Y Y Y

- 2 Deployment has not ended  
8 [VOL] Don't know  
9 [VOL] Refused

C14. What was your age when you began this most recent deployment?

     [age in years] range 17-80 [if response is over 60, verify]

- 8 [VOL] Don't Know  
9 [VOL] Refused

C15. What was your MOS (Military Occupational Specialties) number and a brief description of that role during your most recent deployment? [ALLOW MULTIPLE RESPONSES]

- 1                       
8 [VOL] Don't know  
9 [VOL] Refused

[IF ANSWERED "DON'T KNOW" TO C15, GO TO C16; OTHERWISE GO TO C17]

C16. Which category best fits you MOST? [READ LIST AS NECESSARY; ALLOW MULTIPLE RESPONSES]

- 1 Personnel and Administration
- 2 Intelligence
- 3 Infantry
- 4 Logistics
- 5 Marine Air Ground Task Force (MAGTF) Plans
- 6 Communications
- 8 Field Artillery
- 11 Utilities
- 13 Engineer, Construction, Facilities and Equipment
- 18 Tank and Assault Amphibious Vehicle
- 21 Ground Ordnance Maintenance
- 23 Ammunition and Explosive Ordnance Disposal
- 25 Operational Communications
- 26 Signals Intelligence/Ground Electronic Warfare
- 27 Linguist (Officer/Enlisted)
- 28 Ground Electronics Maintenance
- 30 Supply Administration and Operations
- 31 Traffic Management



- 33 Food Service
- 34 Financial Management
- 35 Major Transport
- 40 Data Systems
- 41 Marine Corps Exchange
- 43 Public Affairs
- 44 Legal Services
- 46 Visual Information
- 55 Music
- 57 Nuclear, Biological and Chemical Defense
- 58 Military Police and Corrections
- 59 Electronics Maintenance
- 60 60/61/62 Aircraft Maintenance
- 63 63/64 Avionics
- 65 Aviation Ordnance
- 66 Aviation Logistics
- 68 Meteorological and Oceanographic (METOC) Services
- 70 Airfield Services
- 72 Air Control/Air Support/Anti-air Warfare/Air Traffic Control
- 73 Navigation Officer and Enlisted Flight Crews
- 75 Pilots/Naval Flight Officers
- 76 Navy Officer Designators (DES) and Billet Codes (NOBC)
- 77 Navy Enlisted Classification Codes (NEC's)
- 78 8000-9599 Category "B" MOS's
- 79 9600-9699 Special Education Program
- 80 9700-9999 Identifying MOS's and Reporting MOS's
- 97 Other [SPECIFY] \_\_\_\_\_
- 98 [VOL] Don't know
- 99 [VOL] Refused

**[READ ONLY IF NECESSARY]**

C17. What is your gender? [If the respondent does not immediately say Male or Female: What sex do you consider yourself to be? [INTERVIEWER: DO NOT READ CHOICES]

- 1 Male
- 2 Female
- 3 Other [SPEC: \_\_\_\_\_]
- 9 [VOL] Refused

**[IF ANSWERED 'ZERO', 'DON'T KNOW', OR 'REFUSED' TO QUESTION C10, SKIP TO SECTION E. IF ANSWERED 'YES' TO C10g, or C10gFLG='1' THEN CONTINUE TO SECTION D, OTHERWISE SKIP TO SECTION E]**

**D. General Military Experience**

I'm now going to continue asking you about your **most recent deployment**.

**TRAINING AND DEPLOYMENT PREPARATION**

I am going to read several statements about how well prepared you were by the military for your most recent deployment, and I'd like to know how much you agree or disagree with each statement. There are 5 answer choices you can use: strongly agree, somewhat agree, somewhat disagree, strongly disagree, or neither agree nor disagree.

The (first/next) statement is [STATEMENT]. Do you agree, disagree OR do you neither agree nor disagree (3)?

[IF AGREE: Do you agree strongly (5) or agree somewhat (4)?]

[IF DISAGREE: Do you disagree strongly (1) or disagree somewhat (2)?]

<b>(ROTATE)</b>	Strongly disagree	Somewhat disagree	Neither agree nor disagree	Somewhat agree	Strongly agree	(VOL) DK	(VOL) RF
D1. I had all the supplies and equipment needed to get my job done.	1	2	3	4	5	8	9
D2. The equipment I was given functioned the way it was supposed to.	1	2	3	4	5	8	9
D3. I received adequate training on how to use my equipment.	1	2	3	4	5	8	9
D6. I was accurately informed about what to expect from the enemy.	1	2	3	4	5	8	9
D8. I was accurately informed of what daily life would be like during my deployment.	1	2	3	4	5	8	9

## UNIT SUPPORT

The next statement is about your relationships with other military personnel during your most recent deployment.

How much do you agree or disagree that: [STATEMENT].

Do you agree, disagree, OR do you neither agree nor disagree (3)?

[IF AGREE: Do you agree strongly (5) or agree somewhat (4)?]

[IF DISAGREE: Do you disagree strongly (1) or disagree somewhat (2)?]

(ROTATE)	Strongly disagree	Somewhat disagree	Neither agree nor disagree	Somewhat agree	Strongly agree	(VOL) DK	(VOL) RF
D11. I felt a sense of camaraderie between myself and other soldiers in my unit.	1	2	3	4	5	8	9

## LIFE & FAMILY CONCERNS

The next statement refers to concerns you may have had related to your life and family back home during your **most recent deployment**.

While you were deployed, how concerned were you about [ITEM]? Would you say not at all, a little, moderately or a great deal?

(ROTATE)	Not at all concerned	A little concerned	Moderately concerned	Concerned A great deal	(VOL) Not applicable	VOL DK	VOL RF
D34. Harming your relationship with your spouse or significant other.	1	2	3	4	5	8	9

## COMBAT EXPERIENCES

The following statements are about combat experiences you may have had during your most recent deployment.

While deployed:

\*D41a. Did you participate in active combat operations as a member of a combat unit?

1 Yes

2 No

8 [VOL] Don't know

9 [VOL] Refused

\*D41b. Did you experience combat as a member of medical staff, helicopter crew or corpse detail?

- 1 Yes
- 2 No
- 8 [VOL] Don't know
- 9 [VOL] Refused

\*D53d. Were you injured or wounded during your most recent deployment?

- 1 Yes
- 2 No
- 8 [VOL] Don't know
- 9 [VOL] Refused

D54. Next I'm going to read a list of reasons for injuries or accidents.

Please tell me which, if any, of them you experienced during your most recent deployment. [MULTIPLE RECORD FOR EACH "YES"]

- Being hit by shrapnel or a fragment
- Being hit by a bullet or receiving a gunshot wound
- A motor vehicle crash with a vehicle of any type, including a helicopter or airplane
- An explosion or blast, such as an I.E.D. (Improvised Explosive Device), R.P.G. (Rocket Propelled Grenade), Land mine, Grenade, etc.
- Being hit by a Blunt object
- A fall
- OR some other injury or accident [SPECIFY] \_\_\_\_\_
- None

**[IF NONE, DK OR REF FOR D54, SKIP TO D57]**

D54b. I recognize that these experiences may have occurred as a result of a single event or multiple events. How many separate events did you experience?

**[1-20; 21=21+; 98=Not Sure; 99= Refused]**

**[IF D54b=1 GO TO D55]**

**[READ IF D54b>1 and <4]**

Now I'd like to know more about these [# OF EVENTS FROM D54b] events **[CONTINUE TO D54c1]**.

**[READ IF D54b>3 ]**

Now I'd like to know more about some of these events. Let's start with the most serious one and then I will ask about 2 others[ **CONTINUE TO D54c1**].

D54c1. Thinking about (the worst/the next worst) of these events, please briefly describe what happened so I know how to refer to it: [enter brief description of event]

**[REPEAT D54c1 UNTIL OBTAINED BRIEF DESCRIPTION ALL D54A EVENTS (3 MAXIMUM), RANDOMLY PICK ONE D54c1 EVENT TO CONTINUE WITH]**

D54c2. Now I am only going to ask more specifically about one event. During [D54c1 RANDOMLY PICKED EVENT DESCRIPTION], which of the following did you experience? [READ LIST; **MULTIPLE RECORD**]

[READ ALL ITEMS "YES" IN D54a]

- Being hit by shrapnel or a fragment
- Being hit by a bullet or receiving a gunshot wound
- A motor vehicle crash with a vehicle of any type, including a helicopter or airplane
- An explosion or blast, such as an I.E.D. (Improvised Explosive Device), R.P.G. (Rocket Propelled Grenade), Land mine, Grenade, etc.
- Being hit by a Blunt object
- A fall
- or some other injury or accident [SPECIFY] \_\_\_\_\_

D55. Now I am going to ask you about symptoms you may have experienced after this event.

a. When this event occurred, were you dazed, confused or "seeing stars"?

- 1 Yes
- 2 No
- 8 [VOL] Don't know
- 9 [VOL] Refused

b. Was there any period of time just before the event that you did not or do not remember?

- 1 Yes
- 2 No
- 8 [VOL] Don't know
- 9 [VOL] Refused

**[IF YES]**

D55d. How long was the period of time just before the event that you did not or do not remember? How many seconds, minutes or hours was this period? \_\_\_\_\_ **[ALLOW FOR ANSWER IN SECONDS, MINUTES, OR HOURS OR DAYS]**

D55c. Was there any period of time just after the event that you did not or do not remember?

- 1 Yes
- 2 No
- 8 [VOL] Don't know
- 9 [VOL] Refused

**[IF YES]**

.D55cf How long was the period of time just after the event that you did not or do not remember? How many seconds, minutes or hours was this period? \_\_\_\_\_ **[ALLOW FOR ANSWER IN SECONDS, MINUTES, OR HOURS OR DAYS]**

D55d. Did you or do you currently have problems remembering details about the event?

- 1 Yes
- 2 No
- 8 [VOL] Don't know
- 9 [VOL] Refused

D55e. Did anyone report that you have had trouble remembering details about the event?

- 1 Yes
- 2 No
- 8 [VOL] Don't know
- 9 [VOL] Refused

D55f. During or as a result of the event, did anyone report that you lost consciousness or “blacked out?”

- 1 Yes
- 2 No
- 8 [VOL] Don't know
- 9 [VOL] Refused

D55g. And during or as a result of the event, do you remember losing consciousness or “blacking out”?

- 1 Yes
- 2 No
- 8 [VOL] Don't know
- 9 [VOL] Refused

**[IF YES TO EITHER f OR g]**

D55h. How many times did you lose consciousness during or as a result of this event? **[1-20; 21=NS; 22=Ref]**

D55i. And, thinking about all of the times when you lost consciousness during or as a result of this event, what is the LONGEST AMOUNT OF TIME during which you were unconscious? \_\_SPECIFY IN SECONDS, MINUTES OR HOURS OR DAYS \_\_\_\_\_

D55j. During this event did you hit your head?

- 1 Yes
- 2 No
- 8 [VOL] Don't know
- 9 [VOL] Refused

D55k. During this event were you wearing a helmet?

- 1 Yes
- 2 No
- 3 [VOL] Only during part of the event
- 8 [VOL] Don't know
- 9 [VOL] Refused

[ASK IF D55k=1 OR 3]

D55l. What type of helmet were you wearing? [READ LIST]

- 1 Kevlar or ACH (Advanced Combat Helmet)
- 2 Sports Helmet
- 3 Motorcycle helmet
- 4 Other [Specify] \_\_\_\_\_
- 8 [VOL] Don't know
- 9 [VOL] Refused

D56. Since this event occurred, how often have you experienced the following? [READ ITEM & ANSWER CHOICES]

	All of the time	Most of the time	Some of the time	A little of the time	Not at all	VOL Don't Know	VOL Refused
a. Headaches	1	2	3	4	5	8	9
b. Memory Problems	1	2	3	4	5	8	9
c. Nausea or Vomiting	1	2	3	4	5	8	9
d. Irritability	1	2	3	4	5	8	9
e. Ringing in the ears	1	2	3	4	5	8	9
f. Dizziness	1	2	3	4	5	8	9
g. Balance problems	1	2	3	4	5	8	9
h. Difficulty concentrating	1	2	3	4	5	8	9
i. Vision Problems	1	2	3	4	5	8	9

## DEPLOYMENT CONCERNS

Next, I have an agree-disagree statement about how you felt during your most recent deployment. The statement is [STATEMENT].

Do you agree, disagree, OR do you neither agree nor disagree (3)?

[IF AGREE: Do you agree strongly (5) or agree somewhat (4)?]

[IF DISAGREE: Do you disagree strongly (1) or disagree somewhat (2)?]

(ROTATE)	Strongly disagree	Some-what disagree	Neither agree nor disagree	Some what agree	Strongly agree	VOL DK	VOL RF	VOL N/A
D88. I thought I would never survive.	1	2	3	4	5	8	9	10

## POST-DEPLOYMENT SUPPORT

We have completed the questions about your most recent deployment. The next set of statements refers to questions that are about the social support you had after your most recent deployment.

The (first/next) is [STATEMENT]. Do you agree, disagree, OR do you neither agree nor disagree (3)?

[IF AGREE: Do you agree strongly (5) or agree somewhat (4)?]

[IF DISAGREE: Do you disagree strongly (1) or disagree somewhat (2)?]

(ROTATE)	Strongly disagree	Somewhat disagree	Neither agree nor disagree	Somewhat agree	Strongly agree	(VOL) DK	(VOL) RF
D109. The reception I received when I returned	1	2	3	4	5	8	9

from my deployment made me feel appreciated for my efforts.							
D110. The American people made me feel at home when I returned.	1	2	3	4	5	8	9
D111. When I returned, people made me feel proud to have served my country in the Armed Forces.	1	2	3	4	5	8	9
D113. People at home just don't understand what I have been through while in the Armed Forces.	1	2	3	4	5	8	9
D114. There are people to whom I can talk about my deployment experiences.	1	2	3	4	5	8	9
D115. The people I work with respect the fact that I am a veteran.	1	2	3	4	5	8	9

### Anger

**These next questions are about how my may feel or behave since your most recent deployment. I'd like to know how much you agree or disagree with each statement.**

The (first/next) is [STATEMENT]. Do you agree, disagree, OR do you neither agree nor disagree (3)?

[IF AGREE: Do you agree strongly (5) or agree somewhat (4)?]

[IF DISAGREE: Do you disagree strongly (1) or disagree somewhat (2)?]

<b>(ROTATE)</b>	Strongly disagree	Somewhat disagree	Neither agree nor disagree	Somewhat agree	Strongly agree	(VOL) DK	(VOL) RF
D300. I often find myself getting angry at people or situations	1	2	3	4	5	8	9
D301. When I get angry, I get really mad	1	2	3	4	5	8	9
D302. When I get angry at someone, I want to clobber the person	1	2	3	4	5	8	9
D303. My anger prevents me from getting along with people as well as I'd like to	1	2	3	4	5	8	9
D304. I have trouble controlling violent behavior (for example hitting someone)	1	2	3	4	5	8	9

### **E. Health History**



E1. Turning to your health, in general, would you say your health is: [READ CHOICES]

- 1      Excellent
- 2      Very good
- 3      Good
- 4      Fair
- 5      Poor
- 8      [VOL] Don't know
- 9      [VOL] Refused

## G. Psychosocial Resources

These next statements refer to social support you have felt you received in the **past 12 months** and I'd like to know how much you agree or disagree with each statement.

The (first/next) is [STATEMENT]. Do you agree, disagree, OR do you neither agree nor disagree (3)?

[IF AGREE: Do you agree strongly (5) or agree somewhat (4)?]

[IF DISAGREE: Do you disagree strongly (1) or disagree somewhat (2)?]

ROTATE	Strongly disagree	Somewhat disagree	Neither agree nor disagree	Somewhat agree	Strongly agree	(VOL) DK	(VOL) RF
G1. I am carefully listened to and understood by family members or friends.	1	2	3	4	5	8	9
G2. Among my friends or relatives, there is someone who makes me feel better when I am feeling down.	1	2	3	4	5	8	9
G3. I have problems that I can't discuss with family or friends.	1	2	3	4	5	8	9
G4. Among my friends or relatives, there is someone I go to when I need good advice.	1	2	3	4	5	8	9
G5. My friends or relatives would lend me money if I needed it.	1	2	3	4	5	8	9
G6. My friends or relatives would help me move my belongings if I needed to.	1	2	3	4	5	8	9
G7. The neighborhood where I currently live is a close-knit or	1	2	3	4	5	8	9

unified neighborhood.							
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## H. General traumas

Next I am going to read a series of statements that refer to events you may have experienced at any time in **your lifetime**. It is important for the research that you think carefully before answering.

a) Since we last spoke on the phone in [MONTH] of [YEAR], have you...[READ EACH ITEM]

**[IF C10g was 'YES' or C10gFLG="1", IMMEDIATELY ASK FOR ANY "YES"]**

**[IF C10>0, IMMEDIATELY ASK FOR ANY "YES"]**

b) Was that related to your **most recent** military deployment? [YES, NO, BOTH (MORE THAN ONE INSTANCE), DK, REF]

	a. In your lifetime, have you:				(IF C10g was 'YES') b. Was that related to your most recent military deployment?		
<b>DO NOT ROTATE</b>	Yes	No	(Vol) DK	(Vol) Ref	Yes	No	Vol Both
*H1. Experienced combat or exposure to a war zone in the military or as a civilian	1	2	8	9	1	2	3
*H 2. Been in a fire or explosion	1	2	8	9	1	2	3
* H 3. Been raped	1	2	8	9	1	2	3
* H 4. Experienced another kind of sexual assault or unwanted sexual contact as a result of force, threat of harm, or manipulation	1	2	8	9	1	2	3
* H 5. Been shot or stabbed	1	2	8	9	1	2	3
* H 6. Been held captive, tortured, or kidnapped	1	2	8	9	1	2	3
* H 7. Been mugged, held up, or threatened with a weapon	1	2	8	9	1	2	3
* H 8. Been badly beaten up	1	2	8	9	1	2	3
* H 9. Been in a serious transportation accident (for example a serious car or motor vehicle crash, boat accident, plane crash or train wreck).	1	2	8	9	1	2	3
* H 10. Experienced any other kind of serious accident or injury	1	2	8	9	1	2	3
* H 11. Experienced a natural disaster – for example, a fire, flood, earthquake – in which you were hurt or your property was damaged	1	2	8	9	1	2	3
* H 12. Been diagnosed with a life-threatening illness	1	2	8	9	1	2	3
* H 13. Had a child of yours diagnosed as having a life-threatening illness	1	2	8	9	1	2	3
* H 14. Witnessed someone being killed or seriously injured	1	2	8	9	1	2	3
* H 15. Unexpectedly discovered a dead body	1	2	8	9	1	2	3
* H 16. Learned that a close friend or relative was raped or sexually assaulted	1	2	8	9	1	2	3
* H 17. Learned that a close friend or relative was seriously physically attacked	1	2	8	9	1	2	3
* H 18. Learned that a close friend or relative was	1	2	8	9	1	2	3

seriously injured in a motor vehicle crash							
* H 19. Learned that a close friend or relative was seriously injured in any other accident	1	2	8	9	1	2	3
* H 20. Experienced the sudden, unexpected death of a close friend or relative	1	2	8	9	1	2	3
* H 21. Caused serious injury, harm or death to someone else							
* H 22. Witnessed severe human suffering	1	2	8	9	1	2	3
H 23. Experienced mental illness personally or the mental illness of someone close to you	1	2	8	9	1	2	3
H 24. Had a parent who had a problem with drugs or alcohol	1	2	8	9	1	2	3
H 25. Had a family member other than a parent with a serious drug or alcohol problem	1	2	8	9	1	2	3
H 26. Been through a divorce or “break up” with a partner or significant other	1	2	8	9	1	2	3
H 27. Lost your job	1	2	8	9	1	2	3
H 28. Been emotionally mistreated – for example, shamed, embarrassed, ignored, or repeatedly told you were no good	1	2	8	9	1	2	3
H 29. Seen or heard physical fighting between your parents or caregivers, for example, grabbed, slapped, or had something thrown, kicked, bitten, hit with a fist, or hit with something hard, or threatened with, or hurt by, a knife or gun?	1	2	8	9	1	2	3
H 30. Experienced stressful legal problems – for example, being sued or suing someone else	1	2	8	9	1	2	3
H 31. Been unemployed and seeking employment for at least 3 months	1	2	8	9	1	2	3
H 32. Had serious financial problems	1	2	8	9	1	2	3
*H 33. Had a serious operation	1	2	8	9	1	2	3
H 34. Been Robbed or had your home broken into	1	2	8	9	1	2	3
* H 35. Been exposed to toxic substances , for example, dangerous chemicals or radiation	1	2	8	9	1	2	3
H 36. Had problems getting access to adequate healthcare	1	2	8	9	1	2	3
*H 37. Experienced any other extraordinarily stressful situation or event	1	2	8	9	1	2	3

**CATI NOTE: IF RESPONDENT DOES NOT RECALL OR WILL NOT SAY WHAT THE OTHER STRESSFUL SITUATION OR EVENT WAS, DO NOT INCLUDE IN THE LIST OF TRAUMAS FOR FOLLOW-UP QUESTIONS.**

**[IF ‘YES’ TO H37]**

H37a. Can you briefly describe what that was?

---

Next I am going to read a series of statements that refer to events you may or may not have experienced in your lifetime.

In your lifetime...

H38. <i>Did a parent or other adult in the household you grew up in</i> often or very often insult you, put you down, or act in a way that made you afraid you would be physically hurt?	1	2	8	9
H39. <i>Did a parent or other adult in the household you grew up in</i> often or very often grab, shove, or slap you, or hit you so hard you had marks or were injured?	1	2	8	9
H40. <i>Did a parent or other adult in the household you grew up in</i> touch you or have you touch them in a sexual way, or attempt to or actually have oral, anal, or vaginal intercourse with you?	1	2	8	9
H41. <i>Was a parent or other adult in the household you grew up in</i> depressed or mentally ill, or ever attempt suicide?	1	2	8	9

#### TRAUMA LIST FOR FOLLOW-UP QUESTIONS

- \*1. Experienced combat or exposure to a war zone in the military or as a civilian
- \*2. Been in a fire or explosion
- \*3. Been raped
- \*4. Experienced another kind of sexual assault or unwanted sexual contact as a result of force, threat of harm, or manipulation
- \*5. Been shot or stabbed
- \*6. Been held captive, tortured, or kidnapped
- \*7. Been mugged, held up, or threatened with a weapon
- \*8. Been badly beaten up
- \*9. Been in a serious transportation accident (for example a serious car or motor vehicle crash, boat accident, plane crash or train wreck).
- \*10. Experienced any other kind of serious accident or injury
- \*11. Experienced a natural disaster – for example, a fire, flood, earthquake – in which you were hurt or your property was damaged
- \*12. Been diagnosed with a life-threatening illness
- \*13. Had a child of yours diagnosed as having a life-threatening illness
- \*14. Witnessed someone being killed or seriously injured
- \*15. Unexpectedly discovered a dead body
- \*16. Learned that a close friend or relative was raped or sexually assaulted
- \*17. Learned that a close friend or relative was seriously physically attacked
- \*18. Learned that a close friend or relative was seriously injured in a motor vehicle crash
- \*19. Learned that a close friend or relative was seriously injured in any other accident
- \*20. Experienced the sudden, unexpected death of a close friend or relative
- \*21. Caused serious injury, harm or death to someone else
- \*22. Witnessed severe human suffering
- \*33. Had a serious operation
- \*35. Been exposed to toxic substances (like dangerous chemicals or radiation)
- \*37. Experienced any other extraordinarily stressful situation or event

**[CREATE COUNT OF \*D ITEMS ANSWERED AFFIRMATIVELY (YES, OR ANY EXPOSURE). LIST AS POSSIBLE DEPLOYMENT-RELATED TRAUMAS IN J28 PER INSTRUCTIONS]**

(IF \*D41a=1) Experiencing combat as a member of a combat unit

(IF \*D41b=1) Experiencing combat as a member of a medical team, helicopter crew or being on corpse detail

(IF \*D53d=1) Being injured or wounded during most recent deployment

#### **INSTRUCTIONS**

**IF ANY YES \*Ha TRAUMA QUESTIONS, CREATE TWO LISTS: DEPLOYMENT RELATED TRAUMAS AND NON-DEPLOYMENT RELATED TRAUMAS. ITEMS ANSWERED 'BOTH' IN b SHOULD APPEAR IN BOTH LISTS.**

**CREATE TWO RANDOM SELECTIONS FROM EACH LIST FOR J1 NON-DEPLOYMENT AND J28 DEPLOYMENT RELATED**

**IF HAD NON-DEPLOYMENT TRAUMAS IN WAVE 1:**

**IF THERE ARE ZERO NON-DEPLOYMENT RELATED TRAUMAS IN WAVE 2, GO TO Q.J2**

**IF ONLY 1 NON-DEPLOYMENT RELATED TRAUMA, GO TO Q.J1B**

**IF MORE THAN 1 NON-DEPLOYMENT RELATED TRAUMA, GO TO Q.J1**

**IF DID NOT HAVE NON-DEPLOYMENT TRAUMAS IN WAVE 1:**

**IF THERE ARE ZERO NON-DEPLOYMENT RELATED TRAUMAS, GO TO Q.J28**

**IF ONLY 1 NON-DEPLOYMENT RELATED TRAUMA, GO TO Q.J2**

**IF MORE THAN 1 NON-DEPLOYMENT RELATED TRAUMA, GO TO Q.J1A**

**AFFIRMATIVE ANSWERS TO \* D ITEMS SHOULD APPEAR IN THE DEPLOYMENT-RELATED TRAUMA LIST PER INSTRUCTIONS BELOW**

#### **J. Post-Traumatic Stress Disorder**

Now, please consider the lifetime events we just discussed.

**[IF THERE IS ONLY ONE NON-DEPLOYMENT RELATED TRAUMA, SELECT IT AND SKIP TO J2]**

J1. Of the events we just discussed that were not deployment-related, which event would you consider the worst?

[\*H1a- \*H37a RANDOM PICK1], OR

[\*H1a-H37a RANDOM PICK2], OR

one of the other non-deployment related events you experienced?

[PROBE: Would you like me to read the list of items you mentioned?]

1

98 [VOL] Don't know

99 [VOL] Refused

**[LIST NON-DEPLOYMENT EVENTS ANSWERED 'YES' FROM \*H1a-\*H37a TRAUMA QUESTIONS]**

[CATI: IF J1=DK/REF RANDOMLY SELECT A NON-DEPLOYMENT-RELATED EVENT ANSWERED 'YES' FROM \*H1a-\*H37A]

[NOTE: WE ARE NOT PREVENTING THE SAME KIND OF EVENT FROM BEING CHOSEN AS WAS SELECTED IN YEAR 1 – MULTIPLE INSTANCES OF THE SAME TYPE OF TRAUMA CAN OCCUR]

[IF IN WAVE 1 THEY DID NOT EXPERIENCE A TRAUMA OUTSIDE OF MOST-RECENT DEPLOYMENT SKIP TO J2.]

J1B. Now, the last time we spoke, you told us one of the worst events you had experienced was [INSERT WAVE 1 DUWNT/WORST NON-DEPLOYMENT RELATED TRAUMA FROM WAVE 1]. Please consider this event as well as the event you just told us was the worst from this past year.

Of these two events, which event would you consider the worst? [DISPLAY WORST NON-DEPLOYMENT TRAUMA FROM WAVE 1 AND WORST NON-DEPLOYMENT TRAUMA FROM WAVE 2] [IF THEY ARE THE SAME CATEGORY OF TRAUMA, BRING THE QUESTION TO THE SCREEN BECAUSE THE RESPONDENT WILL STILL BE ABLE TO CHOOSE AMONG THE TWO TRAUMA INSTANCES FOR REFERENCE EVEN THOUGH THE DATA WILL NOT DIFFERENTIATE THEM.]

1        \_\_\_\_\_ (WAVE 1 EVENT)  
2        \_\_\_\_\_ (WAVE 2 EVENT)

98       [VOL] Don't know

99       [VOL] Refused

[CATI: IF J1B=DK/REF RANDOMLY SELECT ONE OF TWO EVENTS]

**[CATI: DEFINE "WORST NON-DEPLOYMENT RELATED TRAUMA" AS ANSWER TO J1B, DUWNT FROM WAVE 1 IF NO TRAUMAS OCCURRED IN WAVE 2 LIST OR SINGLE NON-DEPLOYMENT EVENT CODED FROM \*H1a-\*H37a TRAUMA QUESTIONS]**

In this next section, I'm going to ask about this event: [WORST N-D TRAUMA].

[READ IF W1 TRAUMA WAS SELECTED: (You may recall talking about it in your last interview.)

**[NOTE: IF RESPONDENT DOES NOT RECALL THE EVENT FROM LAST TIME, SAY: "I realize that you may not remember discussing this event last time, but let me go through the questions to see if anything jars your memory of it." – IF RESPONDENT DOESN'T RECALL THE EVENT, THEN CODE AS "NOT SURE" IN J2 TO J5 AND, "NOT AT ALL" IN J6 TO J22]**

[IF "WORST NON-DEP TRAUMA" IS FROM YEAR 1, SKIP TO J6, ELSE ASK:]

J2.       During approximately what year did this event -- [WORST N-D TRAUMA] -- occur?  
          [PROBE: Your best estimate is fine.] [IF THERE WAS MORE THAN ONE OCCURRENCE OF THE  
          EVENT, THEN PROBE: Thinking about the WORST time this happened, what year was it? IF THE  
          EVENT WAS ONGOING, PROBE: Thinking about the WORST time during this period, what year was  
          it?

1        \_\_\_\_\_ [4 DIGIT YEAR]

8        [VOL] Don't know

9        [VOL] Refused

**[IF C10g IS "YES", or C10FLG="1" THEN ASK J3 IF MONTH AND YEAR REPORTED IN J2 IS THE SAME AS THE MOST RECENT DEPLOYMENT IN C12]**

J3. Was this before or after you left on your most recent deployment?

- 1 Before
- 2 After
- 3 (VOL) During
- 8 (VOL) Not sure
- 9 (VOL) Refused

Now I'm going to ask you about different thoughts and feelings you may have had because of this event --  
[WORST N-D TRAUMA].

J4. When this event occurred, did you feel terrified?

- 1 Yes
- 2 No
- 8 [VOL] Don't know
- 9 [VOL] Refused

J5. When this event occurred, did you feel helpless?

- 1 Yes
- 2 No
- 8 [VOL] Don't know
- 9 [VOL] Refused



[CATI NOTE: Display the event at the top of each screen for reference]

Now I'm going to ask you about problems and complaints you may have had because of this event. Please tell me how much you were ever bothered by each of these problems in relation to this stressful experience.

SINCE YOUR LAST INTERVIEW in [month] [year], [ITEM].

READ IN ORDER	Not at all	A little bit	Moderately	Quite a bit	Extremely	(VOL) DK	(VOL) RF
J6. How much were you ever bothered by: Repeated, disturbing memories, thoughts, or images of this stressful experience? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J7. How much were you ever bothered by: Repeated, disturbing dreams of this stressful experience? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J8. How much were you ever bothered by: Suddenly acting or feeling as if this stressful experience were happening again (as if you were reliving it)? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J9. How much were you ever bothered by: Feeling very upset when something reminded you of this stressful experience? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J10. How much were you ever bothered by: Having physical reactions such as heart pounding, trouble breathing, sweating when something reminded you of this stressful experience? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9

J11. How much were you ever bothered by: Avoiding thinking about or talking about this stressful experience or avoiding having feelings related to it? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J12. How much were you ever bothered by: Avoiding activities or situations because they reminded you of this stressful experience? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J13. How much were you ever bothered by: Trouble remembering important parts of this stressful experience? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J14. How much were you ever bothered by: Loss of interest in activities that you used to enjoy (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J15. How much were you ever bothered by: Feeling distant or cut off from other people? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J16. How much were you ever bothered by: Feeling emotionally numb or being unable to have loving feelings for those close to you? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J17. How much were you ever bothered by: Feeling as if your future will somehow be cut short? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9

J18. How much were you ever bothered by: Trouble falling or staying asleep? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J19. How much were you ever bothered by: Feeling irritable or having angry outbursts? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J20. How much were you ever bothered by: Having difficulty concentrating? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J21. How much were you ever bothered by: Being "super-alert" or watchful or on guard? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J22. How much were you ever bothered by: Feeling jumpy or easily startled? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9

**[IF ANY J6 – J22 > 1 EXCLUDING DON'T KNOW OR REFUSED, GO TO J23, OTHERWISE GO TO J28.]**

J23. How difficult did these problems make it for you to do your work, take care of things at home, or get along with other people? Would you say [READ CHOICES]?

- 1 Not difficult at all
- 2 Somewhat difficult
- 3 Very difficult
- 4 Extremely difficult
- 8 [VOL] Don't know
- 9 [VOL] Refused

J23a. When you had several of these bad moods, feelings, and memories, how distressing was it for you? Was it [READ CHOICES]?

- 1 Not at all distressing
- 2 Mildly distressing
- 3 Moderately distressing
- 4 Severely distressing

- 8 [VOL] Don't know
- 9 [VOL] Refused

**[ASK J24 ONLY IF MORE THAN ONE QJ6-QJ22 ANSWERED 2-6, OTHERWISE GO TO J25]**

J24. Did these experiences or feelings you've had ever seem to go together or happen at the same time?

- 1 Yes
- 2 No
- 8 [VOL] Don't know
- 9 [VOL] Refused

J25. How soon after this stressful experience did you start to have any of these problems you've mentioned?  
[READ CHOICES IF NEEDED TO PROBE]

- 1 Same day
- 2 That week
- 3 Within 30 days
- 4 Within 6 months
- 5 Within 1 year
- 6 More than 1 year
- 8 [VOL] Don't know
- 9 [VOL] Refused

J26. What was the longest period of time during which you were having these problems? [READ CHOICES IF NEEDED TO PROBE]

- 1 Less than 1 month
- 2 Between 1 and 3 months
- 3 Between 3 and 6 months
- 4 Between 6 months and 1 year
- 5 More than 1 year
- 8 [VOL] Don't know
- 9 [VOL] Refused

J27. When was the most recent time that you had any of these problems as a result of this stressful experience? [READ CHOICES IF NEEDED TO PROBE]

- 1 Within the last week
- 2 Within the last 30 days
- 3 Over a month ago, but within the past 3 months,
- 4 Over 3 months ago, but within the past 6 months,
- 5 Over 6 months ago, but within the past 12 months,
- 6 More than 12 months ago
- 8 [VOL] Don't know
- 9 [VOL] Refused

**CATI INSTRUCTIONS**

**IF NEVER DEPLOYED (C10=0), GO TO SECTION K**

**IF NO DEPLOYMENT TRAUMAS IN WAVE 1:**

**IF NO DEPLOYMENT RELATED TRAUMAS IN W2 \*Hb1-\*Hb37 or \*D SERIES, GO TO SECTION K**

IF ONLY ONE DEPLOYMENT TRAUMA IN W2 \*Hb1-\*Hb37 or \*D SERIES, GO TO Q.J31  
IF MORE THAN ONE DEPLOYMENT-RELATED EVENTS IN W2 \*Hb1-\*Hb37 or \*D SERIES, GO TO Q.J28

IF A DEPLOYMENT TRAUMA OCCURRED IN WAVE 1:

IF NO DEPLOYMENT RELATED TRAUMAS IN W2 \*Hb1-\*Hb37 or \*D SERIES, GO TO Q.J31

IF ONLY ONE DEPLOYMENT TRAUMA IN W2 \*Hb1-\*Hb37 or \*D SERIES, GO TO Q.J28B

IF MORE THAN ONE DEPLOYMENT-RELATED EVENTS IN W2 \*Hb1-\*Hb37 or \*D SERIES, GO TO Q.J28A

## DEPLOYMENT-RELATED PTSD

Now, please think about stressful experiences you have had in your lifetime that that were **deployment-related**.

[IF THERE IS ONLY ONE DEPLOYMENT- RELATED TRAUMA, SELECT IT AND SKIP TO INSTRUCTIONS AT J30]

J28. You mentioned that you experienced stressful events related to your most recent deployment such as  
[\*H1a-H37a RANDOM PICK1],OR  
[\*H1a-H37a RANDOM PICK2],

. [IF SUM(D\*ITEMS)>0, READ: You also told us earlier that you experienced other events during your most recent deployment such as  
[\*D RANDOM PICK1], OR  
[\*D RANDOM PICK2]

Thinking about these deployment-related events we have already discussed or some other deployment-related event, which event would you consider the worst? [PROBE: Would you like me to read the list of items you mentioned?]

[CATI: SHOW ALL TRAUMAS IN THE LIST FROM \*H1b-\*H37b & \*D ITEMS & \*D ITEMS + OTHER]

1  
97 OR SOME OTHER EVENT RELATED TO YOUR MOST RECENT DEPLOYMENT? (SPECIFY)  
98 [VOL] Don't know  
99 [VOL] Refused

[CATI: IF J28 IS "DK" OR "REF" RANDOMLY SELECT TRAUMA FROM LIST OF DEPLOYMENT RELATED EVENTS FROM \*H1b-\*H37b & \*D ITEMS – EXCLUDE "WORST NON-DEPLOYMENT RELATED TRAUMA" FROM THIS RANDOM SELECTION]

[IF NO DEPLOYMENT RELATED TRAUMAS FROM WAVE 1 SKIP TO J31]

J28B. Now I also want you to consider [SINGLE TRAUMA OR J28A ANSWER] AS WELL AS the event you told us about from your previous deployment [WAVE 1 DUWDT/ INSERT DEPLOYMENT RELATED TRAUMA FROM WAVE 1]. (NOT CALLING WORST BECAUSE IT MAY HAVE BEEN A RANDOM PICK AND DON'T WANT TO HAVE SOMEONE TRY TO CHANGE WAVE 1 ANSWERS]

Which of these two traumas would you consider the worst? [DISPLAY WORST DEPLOYMENT RELATED TRAUMA FROM WAVE 1 AND WORST DEPLOYMENT RELATED TRAUMA FROM WAVE 2] [IF THEY ARE

THE SAME CATEGORY OF TRAUMA, BRING THE QUESTION TO THE SCREEN BECAUSE THE RESPONDENT WILL STILL BE ABLE TO CHOOSE AMONG THE TWO TRAUMA INSTANCES FOR REFERENCE EVEN THOUGH THE DATA WILL NOT DIFFERENTIATE THEM.]

- 1 \_\_\_\_\_ (WAVE 1 EVENT)
- 2 \_\_\_\_\_ (WAVE 2 EVENT)
- 98 [VOL] Don't know
- 99 [VOL] Refused

**DEFINE “WORST DEP TRAUMA” AS ANSWER TO J28B OR DUWDT IF NO TRAUMAS FROM MOST RECENT DEPLOYMENT (OR C10GFLG=”2”) OR SINGLE TRAUMA FROM MOST RECENT DEPLOYMENT.**

**DEFINE "WORST DEP TRAUMA" AS ANSWER TO J28B OR DUWDT IF NO TRAUMAS FROM MOST RECENT DEPLOYMENT (OR C10GFLG="2") OR SINGLE TRAUMA FROM MOST RECENT DEPLOYMENT.**

**[NOTE: IF RESPONDENT DOES NOT RECALL THE EVENT FROM LAST TIME, SAY: "I realize that you may not remember discussing this event last time, but let me go through the questions to see if anything jars your memory of it." – IF RESPONDENT DOESN'T RECALL THE EVENT, THEN CODE AS "NOT AT ALL" IN J32 TO J48]**

[IF "WORST DEP TRAUMA" IS FROM YEAR 1, SKIP TO J32, ELSE ASK:] [NOTE: SKIP ADDED 11/30/09]

[CATI INSTRUCTION: NEW SCREEN]

J31. During approximately what year did event [WORST DEP TRAUMA] occur?

[READ IF W1 TRAUMA WAS SELECTED: (Which you told us was the worst event from your previous deployment, you may recall talking about it in your last interview.)]

- 1 \_\_\_\_\_ [4 DIGIT YEAR]
- 8 [VOL] Don't know
- 9 [VOL] Refused

Now I'm going to ask you about different thoughts and feelings you may have had because of [WORST DEP TRAUMA].

J31a. When this event occurred, did you feel terrified?

- 1 Yes
- 2 No
- 8 [VOL] Don't know
- 9 [VOL] Refused

J31b. When this event occurred, did you feel helpless?

- 1 Yes
- 2 No
- 8 [VOL] Don't know
- 9 [VOL] Refused

[CATI NOTE: Display the event at the top of each screen for reference] Now I'm going to ask you about problems and complaints you may have had because of this event that was related to your deployment. Please tell me how much you were ever bothered by each of these problems in relation to this stressful experience. SINCE YOUR LAST INTERVIEW in [month] [year], [ITEM].

READ IN ORDER	Not at all	A little bit	Moderately	Quite a bit	Extremely	(VOL) DK	(VOL) RF
J32. How much were you ever bothered by: Repeated, disturbing memories, thoughts, or images of this stressful experience? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J33. How much were you ever bothered by: Repeated, disturbing dreams of this stressful experience? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J34. How much were you ever bothered by: Suddenly acting or feeling as if this stressful experience were happening again as if you were reliving it? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J35. How much were you ever bothered by: Feeling very upset when something reminded you of this stressful experience? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J36. How much were you ever bothered by: Having physical reactions, such as heart pounding, trouble breathing, sweating when something reminded you of this stressful experience? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J37. How much were you ever bothered by: Avoiding thinking about or talking about this stressful experience or	1	2	3	4	5	8	9



avoiding having feelings related to it? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)							
J38. How much were you ever bothered by: Avoiding activities or situations because they reminded you of this stressful experience? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J39. How much were you ever bothered by: Trouble remembering important parts of this stressful experience? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J40. How much were you ever bothered by: Loss of interest in activities that you used to enjoy? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J41. How much were you ever bothered by: Feeling distant or cut off from other people? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J42. How much were you ever bothered by: Feeling emotionally numb or being unable to have loving feelings for those close to you? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J43. How much were you ever bothered by: Feeling as if your future will somehow be cut short? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J44. How much were you ever bothered by: Trouble falling or staying asleep?	1	2	3	4	5	8	9

(Would you say not at all, a little bit, moderately, quite a bit, or extremely?)							
J45. How much were you ever bothered by: Feeling irritable or having angry outbursts? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J46. How much were you ever bothered by: Having difficulty concentrating? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J47. How much were you ever bothered by: Being "super-alert" or watchful or on guard? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J48. How much were you ever bothered by: Feeling jumpy or easily startled? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9

**[IF ANY OF QUESTIONS J32-J48 > 1 EXCLUDING DON'T KNOW OR REFUSED, GO TO J49; OTHERWISE GO TO NEXT SECTION.]**

J49. How difficult did these problems make it for you to do your work, take care of things at home, or get along with other people? Would you say [READ CHOICES]?

- 1 Not difficult at all
- 2 Somewhat difficult
- 3 Very difficult
- 4 Extremely difficult
- 8 [VOL] Don't know
- 9 [VOL] Refused

J49a. When you had several of these bad moods, feelings, and memories, how distressing was it for you? Was it [READ CHOICES]?

- 1 Not at all distressing
- 2 Mildly distressing
- 3 Moderately distressing
- 4 Severely distressing
- 8 [VOL] Don't know
- 9 [VOL] Refused

**[ASK J50 ONLY IF MORE THAN ONE QJ32-QJ48 ANSWERED 2-5 – ELSE GO TO J51]**

J50. Did these experiences or feelings you've had ever seem to go together or happen at the same time?

- 1 Yes
- 2 No
- 8 [VOL] Don't know
- 9 [VOL] Refused

J51. How soon after this stressful experience did you start to have any of these problems you've mentioned?  
[READ CHOICES IF NEEDED TO PROBE]

- 1 Same day
- 2 That week
- 3 Within 30 days
- 4 Within 6 months
- 5 Within 1 year
- 6 More than 1 year
- 8 [VOL] Don't know
- 9 [VOL] Refused

J52. What was the longest period of time during which you were having these problems? [READ CHOICES IF NEEDED TO PROBE]

- 1 Less than 1 month
- 2 Between 1 and 3 months
- 3 Between 3 and 6 months
- 4 Between 6 months and 1 year
- 5 More than 1 year
- 8 [VOL] Don't know
- 9 [VOL] Refused

J53. When was the most recent time you had any of these problems as a result of this stressful experience?  
[READ CHOICES IF NEEDED TO PROBE]

- 1 Within the last week
- 2 Within the last 30 days
- 3 Over a month ago, but within the past 3 months,
- 4 Over 3 months ago, but within the past 6 months,
- 5 Over 6 months ago, but within the past 12 months,
- 6 More than 12 months ago
- 8 [VOL] Don't know
- 9 [VOL] Refused

## K. Depression

The next questions are about ways you may have been feeling or may have behaved.

Ka. . Since we last spoke in [MONTH] of [YEAR],, did you ever have a period of at least two weeks during which you were bothered by [ITEM]?

Yes

No

(VOL) Don't know

(VOL) Refused

[IF 'YES' to a , ASK b and c]

b. When this occurred, were you bothered by this problem: [READ LIST]

c. Did this occur during the past 30 days, or not?

	a. In your lifetime, did you ever have a period of at least two weeks during which you were bothered by		b. When this occurred, were you bothered by this problem: [READ LIST]				c. Did this occur during the past 30 days, or not?	
[DO NOT SHUFFLE ITEMS]	Yes	No	Several days	More than half the days	Nearly every day	(vol) DK/REF	Yes	No
K1. Little interest or pleasure in doing things.	1	2	1	2	3	8/9	1	2
K2. Feeling down, depressed, or hopeless	1	2	1	2	3	8/9	1	2
K3. Trouble falling or staying asleep, OR sleeping too much	1	2	1	2	3	8/9	1	2
K4. Feeling tired or having little energy	1	2	1	2	3	8/9	1	2
K5. Poor appetite OR overeating	1	2	1	2	3	8/9	1	2
K6. Feeling bad about yourself – or that you are a failure or have let yourself or your family down	1	2	1	2	3	8/9	1	2
K7. Trouble concentrating on things, such as reading the newspaper or watching television	1	2	1	2	3	8/9	1	2
K8. Moving or speaking so slowly that other people could have noticed? Or the opposite – being so fidgety or restless that you have been moving around a lot more than usual	1	2	1	2	3	8/9	1	2
K9. Thoughts that you would be better off dead or of hurting yourself in some way	1	2	1	2	3	8/9	1	2

**[IF 'YES' TO ANY QUESTIONS K1-K9 GO TO K10; OTHERWISE GO TO K14.]**

K10. How difficult have these problems ever made it for you to do your work, take care of things at home, or get along with other people? Would you say [READ CHOICES]

[NOTE: READ ONLY IF NEEDED: "these problems" refers to problems that you mentioned being bothered by in just the past several questions which were about how you were feeling or may have behaved.]

- 1 Not difficult at all
- 2 Somewhat difficult
- 3 Very difficult
- 4 Extremely difficult
- 8 [VOL] Don't know
- 9 [VOL] Refused

**[ASK IF MORE THAN 1 'YES' TO K1-K9 – ELSE SKIP TO K11a]**

K11. Did these experiences or feelings you've had ever seem to go together or happen at the same time?

- 1 Yes
- 2 No
- 8 [VOL] Don't know
- 9 [VOL] Refused

K11a. What was the longest period of time during which you were having these problems? [READ CHOICES IF NEEDED TO PROBE]

- 1 Less than 1 month
- 2 Between 1 and 3 months
- 3 Between 3 and 6 months
- 4 Between 6 months and 1 year
- 5 More than 1 year
- 8 [VOL] Don't know
- 9 [VOL] Refused

K12. At what age did you first begin to have these problems?

\_\_\_\_\_ [AGE; RANGE 5-97] [98 = DON'T KNOW; 99 = REFUSE]

**[IF K12 IS <13, PROBE:]**

K12a When you say [ANSWER], is that how old you were at the time?

Yes [CONTINUE]

No [RETURN TO K12 FOR NEW RESPONSE]

[If C10gFLG = "1" and ANSWER to K12 is same as ANSWER from C14 PLUS OR MINUS ONE YEAR go to K12b. Did this start before, after or during your most recent deployment?

- 1 Before
- 2 After
- 3 During
- 8 [VOL] Don't know
- 9 [VOL] Refused

K13. When was the most recent time that you had any of these problems? [READ CHOICES IF NEEDED TO PROBE]

- 1 Within the last week
- 2 Within the last 30 days
- 3 Over a month ago, but within the past 3 months,
- 4 Over 3 months ago, but within the past 6 months,
- 5 Over 6 months ago, but within the past 12 months,
- 6 More than 12 months ago
- 8 [VOL] Don't know
- 9 [VOL] Refused

[ASK ALL]

K14. Since we last spoke, have you ever been diagnosed by a physician or health professional with...

a. Posttraumatic stress disorder (P.T.S.D.)

- 1 Yes
- 2 No
- 8 [VOL] Don't know
- 9 [VOL] Refused
- a1. **[If C10g= 'YES' or C10FLG="1"]** Was this before, since or both before and since your most recent deployment?
  - 1 BEFORE
  - 2 SINCE
  - 3 BOTH
  - 7 [VOL] During
  - 8 [VOL] Don't know
  - 9 [VOL] Refused

b. Depression

- 1 Yes
- 2 No
- 8 [VOL] Don't know
- 9 [VOL] Refused
- b1. **[If C10g= 'YES' or C10FLG="1"]** Was this before, since or both before and since your most recent deployment?
  - 1 BEFORE
  - 2 SINCE
  - 3 BOTH
  - 7 [VOL] During
  - 8 [VOL] Don't know
  - 9 [VOL] Refused

c. Anxiety Disorder

- 1 Yes
- 2 No
- 8 [VOL] Don't know
- 9 [VOL] Refused
- c1. **[If C10g= 'YES' or C10FLG="1"]** Was this before, since or both before and since your most recent deployment?
  - 1 BEFORE
  - 2 SINCE
  - 3 BOTH
  - 7 [VOL] During
  - 8 [VOL] Don't know

9 [VOL] Refused

c. Traumatic Brain Injury

1 Yes

2 No

8 [VOL] Don't know

9 [VOL] Refused

c1. **[If C10g= 'YES' or C10FLG="1"]** Was this before, since or both before and since your most recent deployment?

1 BEFORE

2 SINCE

3 BOTH

7 [VOL] During

8 [VOL] Don't know

9 [VOL] Refused

**W. Risky Health Behaviors**

Next, I am now going to ask about driving...

W1. How often do you use seat belts when you drive or ride in a car? Would you say: [READ CHOICES]

1 Always

2 Nearly always

3 Sometimes

4 Seldom

5 Never

6 [VOL] Never ride in a car

8 [VOL] Don't Know

9 [VOL] Refused

IF ANSWER TO W1 IS "NEVER RIDE IN A CAR" THEN SKIP TO W 7

W2. In the past 30 days, how many times have you driven when you've had perhaps too much to drink?

\_\_\_\_ Number of times [0-30]

31 31+

98 [VOL] Don't Know

99 [VOL] Refused

**M. Cigarette Use**

Next, I have a few questions about cigarettes...

M1a. Since we last spoke, did you smoke cigarettes on at least some days?

1 Yes **[ASK M1b]**

2 No **[SKIP TO NEXT SECTION]**

8 [VOL] Don't know **[SKIP TO NEXT SECTION]**

9 [VOL] Refused **[SKIP TO NEXT SECTION]**

M1b. At any point in your life, did you smoke cigarettes everyday?

- 1 Yes
- 2 No
- 8 [VOL] Don't know
- 9 [VOL] Refused

M1c. Thinking about just the past 30 days... Out of the past 30 days, how many days did you smoke cigarettes? Your best estimate is fine.

- 1 \_\_\_\_ Days used out of 30 **[0-30]**
- 98 [VOL] Don't Know
- 99 [VOL] Refused

**[ASK IF M1c IS 1 OR GREATER]**

M1d. In the past 30 days, on those days when you smoked, on average, how many cigarettes did you smoke per day? Your best estimate is fine and a pack = 20.

- 1 \_\_\_\_ Cigarettes per day **[0-60]**
- 61 61 cigarettes or more
- 98 [VOL] Don't Know
- 99 [VOL] Refused

**N. Alcohol**

The next series of questions is about drinking alcohol beverages like beer, wine or liquor...

N1. Since we last spoke, did you ever drink alcohol?

- 1 Yes
- 2 No
- 8 [VOL] Don't know
- 9 [VOL] Refused

**[IF "YES", GO TO NEXT QUESTION; OTHERWISE GO TO NEXT SECTION.]**

N19. Thinking about just the **past 30 days**, on how many days did you drink any alcoholic beverages? Your best estimate is fine.

- 1 \_\_\_\_ Days used out 30 [0-30]
- 98 [Vol] Don't Know
- 99 [Vol] Refuse

**[IF N19 IS 1 DAYS OR GREATER, GO TO N20; OTHERWISE GO TO NEXT SECTION.]**

N20. A drink is 1 can or bottle of beer, 1 glass of wine, 1 can or bottle of wine cooler, 1 cocktail, or 1 shot of liquor. On the days when you drank alcohol over the **past 30 days**, on average, how many drinks did you have each day? Your best estimate is fine.

- 1 \_\_\_\_ Drinks per day [0-19]
- 20 20 drinks or more
- 98 [VOL] Don't Know



## **R. Use of Mental Health Services**

Now I'm going to ask you about your past use of services that help with problems with emotions or nerves, or problems with the use of alcohol or drugs.

R8g. Since we last spoke in [MONTH] of [YEAR], Did you ever go to see any professionals or self-help groups such as a physician, psychiatrist, psychologist, minister, priest, rabbi or other spiritual advisor, Alcoholics Anonymous or Narcotics Anonymous for problems with your emotions or nerves, or for problems with your use of alcohol or drugs?

- 1 Yes
- 2 No
- 8 [VOL] Don't Know
- 9 [VOL] Refused

**[ASK R10b If "YES" TO R8g AND C10g="Yes"]**

R10b. Were any of these visits related to your most recent deployment?

- 1 Yes
- 2 No
- 8 [VOL] Don't Know
- 9 [VOL] Refused

**[ASK R10c If "YES" IN R8g AND R10b="Yes"]**

R10c. How soon did you seek help after your most recent deployment? [READ LIST IF NEEDED]

- 1 Within the week after
- 2 Within 30 days
- 3 Over a month, but within 3 months,

- 4 Over 3 months, but within 6 months,
- 5 Over 6 months, but within 12 months,
- 6 More than 12 months after
- 8 [VOL] Don't know
- 9 [VOL] Refused

**[ASK R11 if "YES" TO ANY QUESTIONS IN R8]**

R11. Were any of these services provided by the military, Tricare and/or the V.A. (Veterans' Administration) [NOTE: This includes referrals to other locations which were made and covered by the military, Tricare or V.A.]?

- 1 Yes
- 2 No
- 8 [VOL] Don't know
- 9 [VOL] Refused

**S. DEMOGRAPHICS**

This series of questions is for statistical purposes only, to help us analyze the results of the study.

S2. What is your current marital status? Are you: [PLEASE READ EACH CHOICE EXCEPT FOR "DON'T KNOW" OR REFUSED; **MULTIPLE ANSWERS ALLOWED**]

- 1 Married **[GO TO S3]**
- 2 Divorced
- 3 Separated
- 4 Widowed
- 5 Never been married
- 8 [VOL] Don't know
- 9 [VOL] Refused **[GO TO S3]**

S2a. Are you currently in a committed relationship, dating casually, or not seeing anyone?

- 1 committed relationship
- 2 dating casually
- 3 not seeing anyone
- 4 [VOL] Other [SPEC: \_\_\_\_\_]
- 8 [VOL] Don't know
- 9 [VOL] Refused

S3. Are you the parent or primary caretaker of any children who are under 18 years of age (whether they live with you or not)?

- 1 Yes
- 2 No
- 8 [VOL] Don't know
- 9 [VOL] Refused

IF YES TO S3 go to S3b, OTHERWISE GO TO S4

S3b. How many of these children are living with you currently?

\_\_\_\_\_ NUMBER  
**[DO NOT INCLUDE A DON'T KNOW OR REFUSED CODE]**

S4. What kind of health care coverage do you currently have to pay for your health care expenses? Are you covered by: [READ LIST AND SELECT ALL THAT APPLY]

1. Your civilian employer's healthcare plan
2. Your spouse or family member's civilian employer's plan
3. Your school's healthcare plan
4. Health insurance coverage you or your family pay for yourself
5. Medicare
6. Medicaid
7. Tri-care
8. Your spouse or family member's Tri-care, active duty or retired military healthcare coverage
9. the Veterans Administration (VA)
- 10 Some other kind of health care coverage [SPECIFY: \_\_\_\_\_]
- 11 or, do you have no health care insurance?
- 98 [VOL] Don't know
- 99 [VOL] Refused

[S8 REVISED ON 12-14-2009 AFTER 30 PILOT SURVEYS]

S8. What is the highest level of education or schooling you have completed?

[READ CHOICES IF NEEDED]

- 1 Never attended school
- 2 Kindergarten to 8th grade
- 3 Some high school (9th to 11th grade)
- 4 Technical Training (not including military training) but no HS diploma
- 5 High school equivalency (GED/Test-based diploma)
- 6 High school graduate (12th grade)
- 7 Technical Training (not including military training) and HS diploma
- 8 Some college
- 9 College Associates degree (2 year)
- 10 College graduate bachelor's (4-year)
- 11 Masters Degree
- 12 Doctorate
- 13 Other [Spec]
- 98 [VOL] Don't know
- 99 [VOL] Refused

S9. Do you rent your home or own your home? [IF "LIVING WITH FAMILY" PROBE: IS THE HOME YOU LIVE IN OWNED OR RENTED?]

- 1 Rent home
- 2 Own home (includes paying mortgage)
- 3 Neither
- 8 [VOL] Don't know
- 9 [VOL] Refused

S10. And now, what was your total household income last year from all sources before taxes? Include your income and income from anyone else living in your household. Do not tell me the amount. Please just tell me the answer that best represents your household income.

[IF HESITANT: Income data is important in analyzing health information we collect. For example, the information helps us learn whether people in one income group have particular difficulties accessing different services they might need.]

[F NECESSARY] Include income from jobs, investments, public assistance, unemployment insurance, social security, disability and pension funds, and all other sources?

Was it: [READ LETTER AND RANGE]

- 1 A, Less than or equal to \$40,000 [GO TO S10a]
- 2 B, More than \$40,000 to \$80,000 [GO TO S10b]
- 3 C, More than \$80,000 [GO TO S10c]
- 8 [VOL] Don't know [GO TO S13]
- 9 [VOL] Refused [GO TO S13]

[PROBE: Your best estimate is fine.]

S10a. Was that: [READ LETTER AND RANGE]

- 1 A, Less than or equal to \$20,000 or
- 2 B, More than \$20,000
- 8 [VOL] Don't know
- 9 [VOL] Refused

[GO TO S13]

S10b. Was that: [READ LETTER AND RANGE]

- 1 A, Less than or equal to \$60,000, or
- 2 B, More than \$60,000
- 8 [VOL] Don't know
- 9 [VOL] Refused

[GO TO S13]

S10c. Was that: [READ LETTER AND RANGE]

- 1 A, Less than or equal to \$100,000
- 2 B, More than \$100,000 to \$150,000, or
- 3 C, More than \$150,000
- 8 [VOL] Don't know
- 9 [VOL] Refused

S13a. Now I have some questions about your current work situation. For each choice, tell me whether or not it applies to you. **[SELECT ALL THAT APPLY]** Are you...

- 1 Working full-time in a civilian job
- 2 Working part-time in a civilian job
- 3 Working full-time for the Reserve
- 4 Working part time for the Reserve
- 5 Looking for work or unemployed
- 6 Retired
- 7 A homemaker
- 8 A student
- 9 On maternity or paternity leave
- 10 On illness or sick leave
- 11 On disability
- 12 Other (SPECIFY: \_\_\_\_\_)
- 98 [VOL] Don't know
- 99 [VOL] Refused

**ASK S14 IF WORKING FULL TIME (1) OR PART TIME (2) IN A CIVILIAN JOB IN S13a]**

S14. As an official part of your civilian job, do you supervise the work of other employees, that is have responsibility for, or tell other employees what to do?

- 1 Yes
- 2 No
- 8 [VOL] Don't know
- 9 [VOL] Refused

**ASK S14a IF WORKING FULL TIME (3) OR PART TIME (4) FOR RESERVE IN S13a]**

S14a. As an official part of your job with the Reserve, do you supervise the work of other employees, that is have responsibility for, or tell other employees what to do?

- 1 Yes
- 2 No
- 8 [VOL] Don't know
- 9 [VOL] Refused

**T. Counseling/Conclusion**

T1. Thank you for completing the survey. Before I go, I have just a few more things to take care of, including getting some information so that we can send you the check for \$25 that we mentioned at the beginning of the survey. First, I would just like to give you our toll-free number in case you have any additional questions about the project or you need to get in touch with us later on.

T2. Would you like to write our number down? It is 1-888-735-0199.

- 1 Accepts number
- 2 Does not want the number

T2a. And, if you have any questions regarding your rights as a research participant, you may call the Columbia University Institutional Review Board. Would you like to write the number down? That number is 212-305-5883.

- 1 Accepts number
- 2 Does not want the number

T3. Now, I just need to verify your name and address so that we can send you your check. [INTERVIEWER: IF RESPONDENT ASKS YOU TO SEND THE MONEY TO A CHARITY, SAY: That is a good idea, but the study protocol requires that I send the check to the person who completes the survey. Then, of course, you can send it along to whatever charity you prefer.]

- 1 Will give address/accept check **[GO TO ADDRESS MODULE]**
- 2 Decline address/decline check

**[IF DECLINE CHECK]**

T4. Then just let me verify your address. Having this information will make it easier to contact you in about a year to conduct the next follow-up interview or to send you information on the other parts of the study.

- 1 Will give address **[GO TO ADDRESS MODULE]**
- 2 Decline address

[ASK ALL]

T5. Email is a good way for us to keep in touch and inform you about our next upcoming survey. Do you have an email address?

YES, WILL GIVE EMAIL **[CAPTURE EMAIL ADDRESS]**  
NO – DO NOT HAVE EMAIL  
REFUSED TO GIVE EMAIL

T6. Having contact information for someone who always knows how to get in touch with you will also make it easier for us to keep in touch and inform you about our next upcoming survey. Is there someone who always knows how to get in touch with you?

Yes, will give information **[ask for first & last name & phone]**  
No, no contacts **[SKIP TO T8]**  
Refused **[SKIP TO T8]**

T7. Is there a second person who always knows how to get in touch with you?

Yes, will give information **[ask for first & last name & phone]**  
No, no contacts **[SKIP TO T8]**  
Refused **[SKIP TO T8]**

Okay, we're almost done. I have just one more thing to take care of before I go.

T8. Some of the questions in this survey can be upsetting or stressful. Were any of the survey questions emotionally upsetting to you?

- 1 Yes **[ASK T9]**
- 2 No **[GO TO T10a]**

T9. Are you still feeling emotionally upset or are you okay now?

- 1 Still upset **[ASK T10]**
- 2 Feeling okay now **[GO TO T10a]**

T10. If you would like to talk to someone about how you are feeling, I can have someone call you. Would you like our on call counselor to call you?

- 1 Yes **[GO TO T11]**
- 2 No **[GO TO T10a]**

[IF K9c= "YES," READ T10a and ASK T10a – ELSE SKIP TO T16]

T10a. Earlier in the survey you mentioned having thoughts within the past 30 days that you would be better off dead or of hurting yourself in some way. If you would like to talk to someone about these thoughts, I can have someone call you. Would you like our on call counselor to call you?

- 1 Yes **[GO TO T11]**
- 2 No **[GO TO T16]**

T11. Do you need a counselor to get back to you (today/this evening) or can I have someone call you (tomorrow/Monday) during regular business hours?

- 1 Need someone to call today/tonight
- 2 Would like someone to call tomorrow/Monday

T12. What is your name?

T12fn. RECORD first name

\_\_\_\_\_

T12ln. RECORD last name

\_\_\_\_\_

T12ph. What number should we call you back on?

\_\_\_\_\_

T12st. And, where do you live? I need to provide the counselor with your name, address, and telephone number to be sure we are able to reach you. This information will only be used by the counselor to contact you.

RECORD street name and number

\_\_\_\_\_

T12town. RECORD town

\_\_\_\_\_

T12state. RECORD state

\_\_\_\_\_

T12zip. RECORD zip code

\_\_\_\_\_

T12co. RECORD any interviewer comments

\_\_\_\_\_

Okay, I will have someone get back to you soon.

[NOTE TO INTERVIEWER: IF RESPONDENT WANTS TO TALK TO A DOCTOR TODAY/TOMORROW/MONDAY, NOTIFY YOUR SUPERVISOR NOW!]

[CATI – DISPLAY A NOTIFICATION SCREEN TO PROMPT SUPERVISOR FOR ANY COUNSELING REQUESTS]

T16. As a final note, we want to remind you that we will be calling again to follow-up on how you are doing about once a year. If you change your telephone number or address in the meantime, you can let us know about it by calling the toll free number I provided earlier. This information will be provided in the envelope with your check.

[RECORD CODE 2 ONLY IF PERSON SAYS NOT TO CALL AGAIN]

1 Continue

2 [VOL] Does not want to be called again

Thank you for your participation in this survey. Have a great day/evening.



## CELL PHONE PROTOCOL

Some respondents will supply a phone number in response to the advance letters and they may turn out to be cell phones.

Update phone number needs to be available on the tipresp menu, and updating needs to be enabled in the script where indicated in the following questions.

---

**[CATI: ADD THESE QUESTIONS TO THE SCRIPT IMMEDIATELY AFTER THE RESPONDENT INTRODUCTION]**

P1. Is this number that I called you on a cell phone?

(If asked why: I just want to offer to call you on a land-line phone, or at a time when you are not driving if this is a cell phone)

Yes (GO TO P2)

No (SKIP TO A)

REFUSAL - SOFT (SOFT REFUSAL - THANK & END)

REFUSAL - HARD (HARD REFUSAL - THANK & END)

P2. Is there a land line where you would prefer me to call to conduct the interview?

Yes (UPDATE PHONE TO LAND LINE & SCHEDULE CB)

No, continue on cell phone

REFUSAL – SOFT (SOFT REFUSAL - THANK & END)

REFUSAL - HARD (HARD REFUSAL - THANK & END)

P3. Are you currently driving, or someplace else where it IS NOT safe to talk on your cell phone?

YES/CALL ME LATER (SCHEDULE CALLBACK)

No, respondent can talk now

REFUSAL – SOFT (SOFT REFUSAL - THANK & END)

REFUSAL - HARD (HARD REFUSAL - THANK & END)

P4. Is now a good time to talk?

**(INTERVIEWER: IF EVENINGS / WEEKENDS ARE BETTER BECAUSE RESPONDENT IS NOT CHARGED FOR CELL USAGE, SCHEDULE CALLBACK AND RECORD COMMENTS)**

Yes, now is fine (CONTINUE TO A1a)

No, another time is better (SCHEDULE CALLBACK & record comments about best call times)

REFUSAL – SOFT (SOFT REFUSAL - THANK & END)

REFUSAL - HARD (HARD REFUSAL - THANK & END)



**Mental Health and Service Utilization among Reserve forces**

**Telephone Consent and Survey Questionnaire - Year 3  
(January 2012 to December 2012)  
(Abt SRBI Project # 5xxx)**

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[NOTES TO CATI PROGRAMMER: SET TIME STAMPS FOR EACH LETTERED SECTION]

[DP: LABEL ALL VARIABLE NAMES STARTING WITH THE LETTER "W3" TO DISTINGUISH AS YEAR 3]

## Mental Health and Service Utilization among Reserve forces

### NOTE ON FORMATTING:

[TEXT] indicates instructions or comments for *interviewers/coders* to see but not read to respondents (text) is additional text for interviewers to read only if needed to help a respondent understand a question

Interviewer: \_\_\_\_\_

TIME START: \_\_\_\_\_ TIME END: \_\_\_\_\_ DATE: \_\_\_\_\_

[CELL PHONE PROTOCOL TO BE INSERTED INTO CATI PROGRAM TO ENSURE SAFETY OF RESPONDENTS AND OFFER TO CALL ON A LANDLINE PHONE. SURVEYS WITH FEMALE RESPONDENTS WILL ONLY BE CONDUCTED BY FEMALE INTERVIEWERS.]

### A. Introduction

May I speak to [NAME OF PARTICIPANT] Hello, my name is \_\_\_\_\_ and I am calling for Columbia University and the Uniformed Services University of the Health Sciences. You should have received a letter regarding the next year of this study that you participated in [MONTH] of [YEAR]. As the letter explained, we are asking you to take part in the next year of the study about experiences of military personnel.

A3. Is this a good time for you to talk or would you like to make an appointment for a more convenient time?

- 1 Continue
- 2 Make Appointment
- 3 Do not wish to participate **[Go to B5]**

During this conversation I will give you important contact information that was also provided in the letter you received earlier. Please make sure that you have a way to record this information.

A4. Are you ready to continue or do you need a moment to get ready?

- 1 Continue
- 2 Need to get ready [Wait until ready]
- 3 Do not wish to participate **[Go to B5]**

## **B. Participation**

### **[Overview of Verbal Consent Procedure]:**

The letter we mailed to you explained the procedures of the study and contact information. At this time I am going to review that information and make sure you understand the purpose of the study, what will be asked of you if you participate and make sure that you would like to participate.

### **[Purpose of the study]**

The title of the study is "Health and Well-being of Reserve Forces". The study has two purposes – first, it will give us an idea about how certain experiences may affect the health of Reserve Members over time, and second it may help improve the treatment available to Reserve members who may have stressful experiences while serving. The principal investigators of this study are Dr Sandro Galea at Columbia University, formerly at the University of Michigan, and Dr Robert Ursano at the Uniformed Services University of the Health Sciences. The project is sponsored by the National Institutes of Health and the Department of Defense.

### **[Procedure]**

To better understand the experiences of the Reserve, we will be re-interviewing the members who participated in the baseline survey, every year for the next 2 years. If you choose to participate in the interview today we will collect information about your family history, military history, medical history, quality of life, productivity, and your use of healthcare services. You may decline to answer any questions that you do not want to answer and you can discontinue the interview at any time if you choose to. This survey takes about 50 minutes to complete over the telephone. Agreeing to participate in the study and allowing your health information to be used is voluntary and is separate from your enlistment.

### **[Risks]**

There are no known physical risks to you for participating in this study. Psychological or emotional risks are minimal in that some of the study questions are of a sensitive nature and may make you feel uncomfortable, though we have tried to make the process as comfortable as possible. If you feel distressed during the interview, you may stop. If you feel distress and would like to speak with someone at any point during the interview we have on call counselors available.

### **[Benefits]**

This study does not provide direct benefits to participants. If this work is successful in identifying features of deployment that are associated with better long-term mental health among military personnel, it is possible that subsequent changes in military practice will have benefits for you after a period of time and this study may one day help improve the health care of military personnel.

### **[Alternate Procedures]**

As this is not a clinical or experimental study the only alternative to participation is to not participate.

### **[Cost]**

There is no financial cost for you to participate in this study. We are offering \$25.00 for each interview completed and there will be annual interviews until the year 2013. We will also send \$10.00 in a mailing once a year between each of the interviews,. Payment will be mailed to an address you supply at the completion of your interview

### **[Confidentiality]**

Your participation in this study is confidential. The answers to your interviews will be kept separate from your identifying information and only one file will be kept that links your answers to your identifying information. You will not be identified in any reports on this study. Records will be kept confidential to the extent provided by federal, state and local law. However, the Institutional Review Boards at Columbia University and the Uniformed Services University of the Health Sciences, the sponsor of the study, and government officials responsible for monitoring this study may inspect the reports. USAMRMC (US Army Medical Research and Materiel Command) are eligible to review research records to ensure the protection of human subjects. The data collected during this study may be kept for an unspecified period of time.

[Certificate of Confidentiality]

Additionally, a Certificate of Confidentiality has been obtained to help ensure the privacy of the data collected and your identity. With this Certificate, the investigators cannot be forced (for example by court subpoena) to disclose information that may identify you in any federal, state, or local civil, criminal, administrative, legislative, or other proceedings. However, the US government may wish to audit the information collected in this study to evaluate the research practices of the study. In addition, if the study staff suspects intent to harm yourself or others we will report it to the proper authorities as necessary, but we would only disclose information in your records relevant to the prevention of serious harm to the person or persons endangered.

You can choose to quit at anytime by refusing to participate in the interviews. If you complete this interview and you decide you would like to permanently be removed from the study, you may contact SRBI by email (RNGStudy@srbi.com), phone (1-888-735-0199) or send a written letter mailed to: SRBI, Inc.. Attn: Reserve Study #4495, 275 Seventh Avenue, Suite 2700, New York, New York 10001. If we are unable to reach you for an extended period of time we may have to discontinue your participation in the study.

[Contact]

You may contact the Principal Investigator at any time with any questions. He is Dr Sandro Galea and he can be reached on 212-305-8755.

Further information with respect to illness or injury resulting from a research procedure as well as a research subjects' rights is available from the Columbia University Institutional Review Board at 212-305-5883. The address is 722 West 168th Street, 4th Floor, New York, NY 10032

[ASK ALL]

B1. Do you have any questions?

- |   |                               |                    |
|---|-------------------------------|--------------------|
| 1 | Yes, I have some questions    | [GO TO B2]         |
| 2 | No questions                  | [GO TO B2a]        |
| 3 | No, call back at another time | [ARRANGE CALLBACK] |
| 4 | I do not wish to participate  | [Go to B5]         |

B2. What questions do you have?

- |   |  |                                     |
|---|--|-------------------------------------|
| 1 | Questions answered, ready to proceed                     | <b>[GO TO B2a]</b>                  |
| 2 | Not willing to participate until contact investigator    | <b>[ARRANGE CALLBACK IN 3 DAYS]</b> |
| 3 | Not willing to participate until contact SRBI supervisor | <b>[ARRANGE CALLBACK]</b>           |
| 4 | Will do survey at another time                           | <b>[ARRANGE CALLBACK]</b>           |
| 5 | Do not wish to participate                               | <b>[Go to B5]</b>                   |
| 6 | Not willing until receive a new copy of letter           | <b>[Go to B2c]</b>                  |

B2c. I can have another copy of the letter sent to you. First let me verify that we have your current address.

This is the address that the letter was sent to: **[GO TO ADDRESS MODULE]**

Is this correct? **[CORRECT ADDRESS AS NEEDED]**

We will have a new copy of the letter sent to you and we'll get back to you in a few weeks.

**[DISPO AS LETTER REMAIL – ARRANGE CALLBACK FOR 3 WEEKS FROM NOW]**

B2a. To make sure that you understand the basic purpose of the study can you please tell me why we are doing this study?

- 1 Answer given **[RECORD TEXT BELOW AND READ B2b]**
- 2 Not sure/Don't know **[READ B2b]**
- 3 Refused **[READ B2b]**

---

B2b. (Just to be clear,) The study has two purposes – first, it will give us an idea about how certain experiences may impact Reserve Members over time, and second it may help improve the treatment available to members who may have stressful experiences while serving.

B3. Do you feel your questions have been adequately answered and that you fully understand the purpose of this research study? (Interviewer: please check “agrees” or “does not agree” corresponding to the participants answer)

- 1 Agree **[Ask B4]**
- 2 Does not agree **[Return to B2]**
- 3 Don't Know **[Return to B2]**
- 4 Refused **[Go to B5]**

B4. Do you agree to participate in this research study and begin study procedures as we have discussed?

- 1 Agree **[Go to Section C]**
- 2 Does not agree **[Go to B5]**
- 3 Don't Know **[Return to B2]**
- 4 Refused **[Go to B5]**

B5. Can you tell me why you don't wish to participate in the interview?

\_\_\_\_\_ **[THANK AND END]**

**[NOTE: THIS INFO ON FAQ SHEET FOR INTERVIEWERS]**

Now, please take down the toll free number where you can call us back to complete the survey if we don't finish it all right now. We can be reached at (1-888-735-0199). Please mention the Reserve study and your survey key number – [KEY] when you call and you will be directed to the right person. As I mentioned before, this survey takes about one hour to complete. The questions are organized into sections that go together, so it works best if we can complete entire sections at one time. I will let you know periodically when we are between sections in case you need to take a break, but of course you can let me know that you need a break anytime you feel like it.

**C. Military History**

To begin with, I have some questions about your experience in the military.

[IF NOT IN THE GUARD IN PRIOR SURVEY, ASK:]

C1g. When we last spoke, you indicated that you were no longer in the military or the Guard. Have you rejoined the Guard, Reserve or any other military service since then?

- 1 Yes [CONTINUE TO C1a]
- 2 No [SKIP TO SECTION E]
- 8 [VOL] Don't know [SKIP TO SECTION E]
- 9 [VOL] Refused [SKIP TO SECTION E]

C1a. Just to confirm, are you currently in the another Reserve Component of the United States military, or are you separated or retired from the military altogether?

- 1 Currently in Reserve and/or another military Reserve Component **[CONTINUE]**
- 2 Not in the Reserves or the Guard/retired **[CONTINUE]**

C1. How long have you been in the United States military, including both time on Active Duty and time in the Reserves?

[NOTE: Include time in all branches of the military AND time in the Reserves/National Guard] [Round to the nearest whole year, <6 months=0; RANGE = 0-50]

- 1 \_\_\_\_\_[Years]
- 8 [VOL] Don't know
- 9 [VOL] Refused

C1c. Since we last spoke in [MONTH] of [YEAR], have you served as a soldier in another branch of the United States military OUTSIDE of your time in the Reserve?

[IF ASKED: This does not include being active duty Army or Air Force while in the Reserve]

- 1 Yes [CONTINUE TO C1d]
- 2 No
- 8 [VOL] Don't know
- 9 [VOL] Refused

[IF C1c IS "NO", "DON'T KNOW" OR "REFUSED" THEN SKIP TO QUESTION C2]



C1d. Since you we last spoke and besides the National Guard/Reserve or times you were active duty while in the Reserve, in what other service branches have you served? [MULTIPLE RECORD]

- 1 Air Force
- 2 Army
- 3 Coast Guard
- 4 Marine Corps
- 5 Navy
- 8 Other (SPECIFY)
- 98 [VOL] Don't know
- 99 [VOL] Refused

[IF RETIRED/NOT IN GUARD OR RESERVES IN C1a, SKIP TO C10]

C2. In what service branch do you currently serve? [READ CHOICES IF NEEDED]

- 1 Air Force Reserve
- 2. Air National Guard
- 3 Army Reserve
- 4 Army National Guard
- 5 Coast Guard
- 6 Marine Corps Reserve
- 7 Navy Reserve
- 8 Other (SPECIFY)
- 9 [VOL] Don't know
- 10 [VOL] Refused

[C3 REVISED Based on DOD request for no rank information]

C3. What is your current Pay Grade? [READ CHOICES IF NEEDED]

- |    |    |    |                                    |
|----|----|----|------------------------------------|
| 1  | E1 | 14 | W5                                 |
| 2  | E2 | 15 | O1                                 |
| 3  | E3 | 16 | O2                                 |
| 4  | E4 | 17 | O3                                 |
| 5  | E5 | 18 | O4                                 |
| 6  | E6 | 19 | O5                                 |
| 7  | E7 | 20 | O6                                 |
| 8  | E8 | 21 | O7 or above [THANK AND END SURVEY] |
| 9  | E9 | 22 | Other: [SPECIFY: _____]            |
| 10 | W1 | 88 | [VOL] Don't know                   |
| 11 | W2 | 99 | [VOL] Refused                      |
| 12 | W3 |    |                                    |
| 13 | W4 |    |                                    |

C6A1. Please tell me your current MOS (Military Occupational Specialties), NEC (Navy Enlisted Classification) or designator and just a brief description of that role? **[ALLOW MULTIPLE RESPONSES]**

- 1 \_\_\_\_\_
- 8 [VOL] Don't know
- 9 [VOL] Refused

**[IF ANSWERED "DON'T KNOW" TO C6A1, GO TO C6A2; OTHERWISE GO TO C6b]**

**C6A2. Which category best fits your MOS, NEC or designator? [READ LIST AS NECESSARY; ALLOW MULTIPLE RESPONSES]**

- 1 Personnel and Administration
- 2 Intelligence
- 3 Infantry
- 4 Logistics
- 5 Marine Air Ground Task Force (MAGTF) Plans
- 6 Communications
- 8 Field Artillery
- 11 Utilities
- 13 Engineer, Construction, Facilities and Equipment
- 18 Tank and Assault Amphibious Vehicle
- 21 Ground Ordnance Maintenance
- 23 Ammunition and Explosive Ordnance Disposal
- 25 Operational Communications
- 26 Signals Intelligence/Ground Electronic Warfare
- 27 Linguist (Officer/Enlisted)
- 28 Ground Electronics Maintenance
- 30 Supply Administration and Operations
- 31 Traffic Management
- 33 Food Service
- 34 Financial Management
- 35 Major Transport
- 40 Data Systems
- 41 Marine Corps Exchange
- 43 Public Affairs
- 44 Legal Services
- 46 Visual Information
- 55 Music
- 57 Nuclear, Biological and Chemical Defense
- 58 Military Police and Corrections
- 59 Electronics Maintenance
- 60 60/61/62 Aircraft Maintenance
- 63 63/64 Avionics
- 65 Aviation Ordnance
- 66 Aviation Logistics
- 68 Meteorological and Oceanographic (METOC) Services
- 70 Airfield Services
- 72 Air Control/Air Support/Anti-air Warfare/Air Traffic Control
- 73 Navigation Officer and Enlisted Flight Crews
- 75 Pilots/Naval Flight Officers
- 76 Navy Officer Designators (DES) and Billet Codes (NOBC)
- 77 Navy Enlisted Classification Codes (NEC's)
- 78 8000-9599 Category "B" MOS's
- 79 9600-9699 Special Education Program
- 80 9700-9999 Identifying MOS's and Reporting MOS's
- 97 Other [SPECIFY] \_\_\_\_\_
- 98 [VOL] Don't know
- 99 [VOL] Refused

C6B. Do you know if you are going to be deployed in the future (either schedule or location)? [NOTE: When we say deployment, we mean mobilization either nationally or internationally and in any capacity]

- 1 Yes
- 2 No
- 8 [VOL] Don't Know
- 9 [VOL] Refused
- 10 [VOL] Will never be deployed again (ex. Retiring)

**[IF "YES" THEN GO TO C7, OTHERWISE SKIP TO C10]**

C7. What month and year are you scheduled to be deployed?

- 1        /         
         M M   Y Y   Y Y        [RANGE: 1940-CURRENT OR FUTURE YEAR - 2030]
- 2 [VOL] Will never be deployed again (ex. Retiring)
- 8 [VOL] Don't Know
- 9 [VOL] Refused

C9. To which country will you be deployed? [DO NOT READ LIST]

- 1 Afghanistan
- 2 Iraq
- 3 Kuwait
- 4 Saudi Arabia
- 5 United States
- 8 Other: [SPECIFY: \_\_\_\_\_]
- 9 [VOL] Don't know
- 10 [VOL] Refused

Now I am going to ask you questions about your deployment history since we last spoke in [MONTH] of [YEAR]. By deployment I mean any mobilization, both nationally and internationally and in any capacity.

C10. How many times have you been deployed since we last spoke in [MONTH] of [YEAR] either in the Guard or in any other military capacity?

- 1        \_\_\_\_\_ [RANGE 0-30] [IF ANSWER IS ZERO, DK or REF, GO TO C17]
- 98 [VOL] Don't know
- 99 [VOL] Refused

**(For each of the deployments ask C10a & C10c)**

**[CATI: there is no cap on iterations could be up to max deployment range of 30]**

Thinking about your past deployments starting with the earliest deployment.

C10a. In what year did this deployment end?

1            Y Y Y Y            [RANGE: 1940 – CURRENT YEAR]

9998 [VOL] Don't Know

9999 [VOL] Refused

C10c. Were you deployed to a combat setting?

1            Yes

2            No

8            [VOL] Don't Know

9            [VOL] Refused

Now thinking about your (second/third/fourth, etc.) deployment....

**[REPEAT C10a and C10c for all deployments]**

**[DUMMY VARIABLE NAMED C10gFLG ADDED:**

**IF C10 At least 1 , C10gFLG = "1. DEPLOYED SINCE LAST SURVEY;**

**IF C10 = 0, "Don't Know", "Refused" OR BLANK, C10gFLG = "2. NOT DEPLOYED SINCE LAST SURVEY"**

C11. Now thinking about your **most recent** deployment....

In what country did you spend the most amount of time? [DO NOT READ LIST]

1            Afghanistan

2            Iraq

3            Kuwait

4            Saudi Arabia

5            United States

8            Other: [SPECIFY: \_\_\_\_\_]

9            [VOL] Don't know

10          [VOL] Refused

C11a. Was this deployment: [READ CHOICES]

1            With your regular unit -that is, with the unit you are assigned to and train with when in a reserve status

2.           As an I.M.A. (Individual Mobilization Augmentee)

3.           As a "filler" to a unit other than the one you are normally assigned to

4            Or as something else? [Describe: \_\_\_\_\_]

8            [VOL] Don't know

9            [VOL] Refused

1 MM / YY YY [RANGE: 1940-CURRENT YEAR]

9 [VOL] Refused

1                 /                 [RANGE: 1940-CURRENT YEAR] [MUST BE LATER THAN C12]  
                 M M      Y Y      Y Y

8 [VOL] Don't know

9 [VOL] Refused

[age in years] range 17-80 [if response is over 60, verify]

9 [VOL] Refused

1 \_\_\_\_\_  
6 Same as mentioned in C6A1  
8 [VOL] Don't know  
9 [VOL] Refused

C16. Which category best fits your MOS, NEC or designator? [READ LIST AS NECESSARY; **ALLOW MULTIPLE RESPONSES**]

**[READ ONLY IF NECESSARY]**

1 Male  
2 Female  
3 Other [SPEC: \_\_\_\_\_]  
9 [VOL] Refused

#### D. General Military Experience

I'm now going to continue asking you about your **most recent deployment**.

## TRAINING AND DEPLOYMENT PREPARATION

I am going to read several statements about how well prepared you were by the military for your most recent deployment, and I'd like to know how much you agree or disagree with each statement. There are 5 answer choices you can use: strongly agree, somewhat agree, somewhat disagree, strongly disagree, or neither agree nor disagree.

The (first/next) statement is [STATEMENT]. Do you agree, disagree OR do you neither agree nor disagree (3)?

[IF AGREE: Do you strongly agree (5) or somewhat agree (4)?]

[IF DISAGREE: Do you strongly disagree (1) or somewhat disagree (2)?]

<b>(ROTATE)</b>	Strongly disagree	Somewhat disagree	Neither agree nor disagree	Somewhat agree	Strongly agree	(VOL) DK	(VOL) RF
D1. I had all the supplies and equipment needed to get my job done.	1	2	3	4	5	8	9
D2. The equipment I was given functioned the way it was supposed to.	1	2	3	4	5	8	9
D3. I received adequate training on how to use my equipment.	1	2	3	4	5	8	9
D6. I was accurately informed about what to expect from the enemy.	1	2	3	4	5	8	9
D8. I was accurately informed of what daily life would be like during my deployment.	1	2	3	4	5	8	9

## UNIT SUPPORT

The next statement is about your relationships with other military personnel during your most recent deployment.

How much do you agree or disagree that: [STATEMENT].

Do you agree, disagree, OR do you neither agree nor disagree (3)?

[IF AGREE: Do you strongly agree (5) or somewhat agree (4)?]

[IF DISAGREE: Do you strongly disagree (1) or somewhat disagree (2)?]

(ROTATE)	Strongly disagree	Somewhat disagree	Neither agree nor disagree	Somewhat agree	Strongly agree	(VOL) DK	(VOL) RF
D11. I felt a sense of camaraderie between myself and other soldiers in my unit.	1	2	3	4	5	8	9

## LIFE & FAMILY CONCERNS

The next statement refers to concerns you may have had related to your life and family back home during your **most recent deployment**.

While you were deployed, how concerned were you about [ITEM]? Would you say not at all, a little, moderately or a great deal?

(ROTATE)	Not at all concerned	A little concerned	Moderately concerned	Concerned A great deal	(VOL) Not applicable	VOL DK	VOL RF
D34. Harming your relationship with your spouse or significant other.	1	2	3	4	5	8	9

## COMBAT EXPERIENCES

The following statements are about combat experiences you may have had during your most recent deployment.

While deployed:

\*D41a. Did you participate in active combat operations as a member of a combat unit?

1 Yes

2 No

8 [VOL] Don't know

9 [VOL] Refused

\*D41b. Did you experience combat as a member of medical staff, helicopter crew or corpse detail?

- 1 Yes
- 2 No
- 8 [VOL] Don't know
- 9 [VOL] Refused

\*D53d. Were you injured or wounded during your most recent deployment?

- 1 Yes
- 2 No
- 8 [VOL] Don't know
- 9 [VOL] Refused

D54. Next I'm going to read a list of reasons for injuries or accidents.

Please tell me which, if any, of them you experienced during your most recent deployment. [MULTIPLE RECORD FOR EACH "YES"]

- Being hit by shrapnel or a fragment
- Being hit by a bullet or receiving a gunshot wound
- A motor vehicle crash with a vehicle of any type, including a helicopter or airplane
- An explosion or blast, such as an I.E.D. (Improvised Explosive Device), R.P.G. (Rocket Propelled Grenade), Land mine, Grenade, etc.
- Being hit by a Blunt object
- A fall
- OR some other injury or accident [SPECIFY] \_\_\_\_\_
- None

**[IF NONE, DK OR REF FOR D54, SKIP TO D88]**

D54b. I recognize that these experiences may have occurred as a result of a single event or multiple events. How many separate events did you experience?

**[1-20; 21=21+; 98=Not Sure; 99= Refused]**

**[IF D54b=1 GO TO D55]**

**[READ IF D54b>1 and <4]**

Now I'd like to know more about these [# OF EVENTS FROM D54b] events **[CONTINUE TO D54c1]**.

**[READ IF D54b>3 ]**

Now I'd like to know more about some of these events. Let's start with the most serious one and then I will ask about 2 others[ **CONTINUE TO D54c1**].

D54c1. Thinking about (the worst/the next worst) of these events, please briefly describe what happened so I know how to refer to it: [enter brief description of event]

**[REPEAT D54c1 UNTIL OBTAINED BRIEF DESCRIPTION ALL D54A EVENTS (3 MAXIMUM), RANDOMLY PICK ONE D54c1 EVENT TO CONTINUE WITH]**



D54c2. Now I am only going to ask more specifically about one event. During [D54c1 RANDOMLY PICKED EVENT DESCRIPTION], which of the following did you experience? [READ LIST; **MULTIPLE RECORD**]

[READ ALL ITEMS "YES" IN D54a]

- Being hit by shrapnel or a fragment
- Being hit by a bullet or receiving a gunshot wound
- A motor vehicle crash with a vehicle of any type, including a helicopter or airplane
- An explosion or blast, such as an I.E.D. (Improvised Explosive Device), R.P.G. (Rocket Propelled Grenade), Land mine, Grenade, etc.
- Being hit by a Blunt object
- A fall
- or some other injury or accident [SPECIFY] \_\_\_\_\_

D55. Now I am going to ask you about symptoms you may have experienced after this event.

a. When this event occurred, were you dazed, confused or "seeing stars"?

- 1 Yes
- 2 No
- 8 [VOL] Don't know
- 9 [VOL] Refused

b. Was there any period of time just before the event that you did not or do not remember?

- 1 Yes
- 2 No
- 8 [VOL] Don't know
- 9 [VOL] Refused

**[IF YES]**

D55d. How long was the period of time just before the event that you did not or do not remember? How many seconds, minutes or hours was this period? \_\_\_\_\_ **[ALLOW FOR ANSWER IN SECONDS, MINUTES, OR HOURS OR DAYS]**

D55c. Was there any period of time just after the event that you did not or do not remember?

- 1 Yes
- 2 No
- 8 [VOL] Don't know
- 9 [VOL] Refused

**[IF YES]**

D55cf How long was the period of time just after the event that you did not or do not remember? How many seconds, minutes or hours was this period? \_\_\_\_\_ **[ALLOW FOR ANSWER IN SECONDS, MINUTES, OR HOURS OR DAYS]**

D55d. Did you or do you currently have problems remembering details about the event?

- 1 Yes
- 2 No
- 8 [VOL] Don't know
- 9 [VOL] Refused

D55e. Did anyone report that you have had trouble remembering details about the event?

- 1 Yes
- 2 No
- 8 [VOL] Don't know
- 9 [VOL] Refused

D55f. During or as a result of the event, did anyone report that you lost consciousness or "blacked out?"

- 1 Yes
- 2 No
- 8 [VOL] Don't know
- 9 [VOL] Refused

D55g. And during or as a result of the event, do you remember losing consciousness or "blacking out"?

- 1 Yes
- 2 No
- 8 [VOL] Don't know
- 9 [VOL] Refused

**[IF YES TO EITHER f OR g]**

D55h. How many times did you lose consciousness during or as a result of this event? **[1-20; 21=NS; 22=Ref]**

D55i. And, thinking about all of the times when you lost consciousness during or as a result of this event, what is the LONGEST AMOUNT OF TIME during which you were unconscious? \_\_SPECIFY IN SECONDS, MINUTES OR HOURS OR DAYS \_\_\_\_\_

D55j. During this event did you hit your head?

- 1 Yes
- 2 No
- 8 [VOL] Don't know
- 9 [VOL] Refused

D55k. During this event were you wearing a helmet?

- 1 Yes
- 2 No
- 3 [VOL] Only during part of the event
- 8 [VOL] Don't know
- 9 [VOL] Refused

[ASK IF D55k=1 OR 3]

D55l. What type of helmet were you wearing? [READ LIST]

- 1 Kevlar or ACH (Advanced Combat Helmet)
- 2 Sports Helmet
- 3 Motorcycle helmet
- 4 Other [Specify] \_\_\_\_\_
- 8 [VOL] Don't know
- 9 [VOL] Refused

D56. Since this event occurred, how often have you experienced the following? [READ ITEM & ANSWER CHOICES]

	All of the time	Most of the time	Some of the time	A little of the time	Not at all	VOL Don't Know	VOL Refused
a. Headaches	1	2	3	4	5	8	9
b. Memory Problems	1	2	3	4	5	8	9
c. Nausea or Vomiting	1	2	3	4	5	8	9
d. Irritability	1	2	3	4	5	8	9
e. Ringing in the ears	1	2	3	4	5	8	9
f. Dizziness	1	2	3	4	5	8	9
g. Balance problems	1	2	3	4	5	8	9
h. Difficulty concentrating	1	2	3	4	5	8	9
i. Vision Problems	1	2	3	4	5	8	9

## DEPLOYMENT CONCERNS

Next, I have an agree-disagree statement about how you felt during your most recent deployment. The statement is [STATEMENT].

Do you agree, disagree, OR do you neither agree nor disagree (3)?

[IF AGREE: Do you strongly agree (5) or somewhat agree (4)?]

[IF DISAGREE: Do you strongly disagree (1) or somewhat disagree (2)?]

(ROTATE)	Strongly disagree	Some-what disagree	Neither agree nor disagree	Some what agree	Strongly agree	VOL DK	VOL RF	VOL N/A
D88. I thought I would never survive.	1	2	3	4	5	8	9	10

## POST-DEPLOYMENT SUPPORT

We have completed the questions about your most recent deployment. The next set of statements refers to questions that are about the social support you had after your most recent deployment.

The (first/next) is [STATEMENT]. Do you agree, disagree, OR do you neither agree nor disagree (3)?

[IF AGREE: Do you strongly agree (5) or somewhat agree (4)?]

[IF DISAGREE: Do you strongly disagree (1) or somewhat disagree (2)?]

(ROTATE)	Strongly disagree	Somewhat disagree	Neither agree nor disagree	Somewhat agree	Strongly agree	(VOL) DK	(VOL) RF
D109. The reception I received when I returned from my deployment made me feel appreciated for my efforts.	1	2	3	4	5	8	9
D110. The American people made me feel at home when I returned.	1	2	3	4	5	8	9
D111. When I returned, people made me feel proud to have served my country in the Armed Forces.	1	2	3	4	5	8	9
D113. People at home just don't understand what I have been through while in the Armed Forces.	1	2	3	4	5	8	9
D114. There are people to whom I can talk about my deployment experiences.	1	2	3	4	5	8	9
D115. The people I work with respect the fact that I am a veteran.	1	2	3	4	5	8	9

## E. Health History

E1. Turning to your health, in general, would you say your health is: [READ CHOICES]

- 1 Excellent
- 2 Very good
- 3 Good
- 4 Fair
- 5 Poor
- 8 [VOL] Don't know
- 9 [VOL] Refused

## G. Psychosocial Resources

These next statements refer to social support you have felt you received in the **past 12 months** and I'd like to know how much you agree or disagree with each statement.

The (first/next) is [STATEMENT]. Do you agree, disagree, OR do you neither agree nor disagree (3)?

[IF AGREE: Do you strongly agree (5) or somewhat agree (4)?]

[IF DISAGREE: Do you strongly disagree (1) or somewhat disagree (2)?]

<b>ROTATE</b>	Strongly disagree	Somewhat disagree	Neither agree nor disagree	Somewhat agree	Strongly agree	(VOL) DK	(VOL) RF
G1. I am carefully listened to and understood by family members or friends.	1	2	3	4	5	8	9
G2. Among my friends or relatives, there is someone who makes me feel better when I am feeling down.	1	2	3	4	5	8	9
G3. I have problems that I can't discuss with family or friends.	1	2	3	4	5	8	9
G4. Among my friends or relatives, there is someone I go to when I need good advice.	1	2	3	4	5	8	9
G5. My friends or relatives would lend me money if I needed it.	1	2	3	4	5	8	9
G6. My friends or relatives would help me move my belongings if I needed to.	1	2	3	4	5	8	9
G7. The neighborhood where I currently live is a close-knit or unified neighborhood.	1	2	3	4	5	8	9

## H. General traumas

Next I am going to read a series of statements that refer to events you may have experienced.. It is important for the research that you think carefully before answering.

a) Since we last spoke on the phone in [MONTH] of [YEAR], have you...[READ EACH ITEM]

[IF C10gFLG="1", IMMEDIATELY ASK FOR ANY "YES"]

b) Was that related to your **most recent** military deployment? [YES, NO, BOTH (MORE THAN ONE INSTANCE), DK, REF]

	a. In your lifetime, have you:				(IF C10gFLG=1) b. Was that related to your most recent military deployment?		
<b>DO NOT ROTATE</b>	Yes	No	(Vol) DK	(Vol) Ref	Yes	No	Vol Both
*H1. Experienced combat or exposure to a war zone in the military or as a civilian	1	2	8	9	1	2	3
*H 2. Been in a fire or explosion	1	2	8	9	1	2	3
* H 3. Been raped	1	2	8	9	1	2	3
* H 4. Experienced another kind of sexual assault or unwanted sexual contact as a result of force, threat of harm, or manipulation	1	2	8	9	1	2	3
* H 5. Been shot or stabbed	1	2	8	9	1	2	3
* H 6. Been held captive, tortured, or kidnapped	1	2	8	9	1	2	3
* H 7. Been mugged, held up, or threatened with a weapon	1	2	8	9	1	2	3
* H 8. Been badly beaten up	1	2	8	9	1	2	3
* H 9. Been in a serious transportation accident (for example a serious car or motor vehicle crash, boat accident, plane crash or train wreck).	1	2	8	9	1	2	3
* H 10. Experienced any other kind of serious accident or injury	1	2	8	9	1	2	3
* H 11. Experienced a natural disaster – for example, a fire, flood, earthquake – in which you were hurt or your property was damaged	1	2	8	9	1	2	3
* H 12. Been diagnosed with a life-threatening illness	1	2	8	9	1	2	3
* H 13. Had a child of yours diagnosed as having a life-threatening illness	1	2	8	9	1	2	3
* H 14. Witnessed someone being killed or seriously injured	1	2	8	9	1	2	3
* H 15. Unexpectedly discovered a dead body	1	2	8	9	1	2	3
* H 16. Learned that a close friend or relative was raped or sexually assaulted	1	2	8	9	1	2	3
* H 17. Learned that a close friend or relative was seriously physically attacked	1	2	8	9	1	2	3
* H 18. Learned that a close friend or relative was seriously injured in a motor vehicle crash	1	2	8	9	1	2	3
* H 19. Learned that a close friend or relative was	1	2	8	9	1	2	3

seriously injured in any other accident							
* H 20. Experienced the sudden, unexpected death of a close friend or relative	1	2	8	9	1	2	3
* H 21. Caused serious injury, harm or death to someone else							
* H 22. Witnessed severe human suffering	1	2	8	9	1	2	3
H 23. Experienced mental illness personally or the mental illness of someone close to you	1	2	8	9	1	2	3
H 24. Had a parent who had a problem with drugs or alcohol	1	2	8	9	1	2	3
H 25. Had a family member other than a parent with a serious drug or alcohol problem	1	2	8	9	1	2	3
H 26. Been through a divorce or “break up” with a partner or significant other	1	2	8	9	1	2	3
H 27. Lost your job	1	2	8	9	1	2	3
H 28. Been emotionally mistreated – for example, shamed, embarrassed, ignored, or repeatedly told you were no good	1	2	8	9	1	2	3
H 29. Seen or heard physical fighting between your parents or caregivers, for example, grabbed, slapped, or had something thrown, kicked, bitten, hit with a fist, or hit with something hard, or threatened with, or hurt by, a knife or gun?	1	2	8	9	1	2	3
H 30. Experienced stressful legal problems – for example, being sued or suing someone else	1	2	8	9	1	2	3
H 31. Been unemployed and seeking employment for at least 3 months	1	2	8	9	1	2	3
H 32. Had serious financial problems	1	2	8	9	1	2	3
*H 33. Had a serious operation	1	2	8	9	1	2	3
H 34. Been Robbed or had your home broken into	1	2	8	9	1	2	3
* H 35. Been exposed to toxic substances , for example, dangerous chemicals or radiation	1	2	8	9	1	2	3
H 36. Had problems getting access to adequate healthcare	1	2	8	9	1	2	3
*H 37. Experienced any other extraordinarily stressful situation or event	1	2	8	9	1	2	3

**CATI NOTE: IF RESPONDENT DOES NOT RECALL OR WILL NOT SAY WHAT THE OTHER STRESSFUL SITUATION OR EVENT WAS, DO NOT INCLUDE IN THE LIST OF TRAUMAS FOR FOLLOW-UP QUESTIONS.**

**[IF ‘YES’ TO H37]**

H37a. Can you briefly describe what that was?

---

## **TRAUMA LIST FOR FOLLOW-UP QUESTIONS**

- \*1. Experienced combat or exposure to a war zone in the military or as a civilian
- \*2. Been in a fire or explosion
- \*3. Been raped
- \*4. Experienced another kind of sexual assault or unwanted sexual contact as a result of force, threat of harm, or manipulation
- \*5. Been shot or stabbed
- \*6. Been held captive, tortured, or kidnapped
- \*7. Been mugged, held up, or threatened with a weapon
- \*8. Been badly beaten up
- \*9. Been in a serious transportation accident (for example a serious car or motor vehicle crash, boat accident, plane crash or train wreck).
- \*10. Experienced any other kind of serious accident or injury
- \*11. Experienced a natural disaster – for example, a fire, flood, earthquake – in which you were hurt or your property was damaged
- \*12. Been diagnosed with a life-threatening illness
- \*13. Had a child of yours diagnosed as having a life-threatening illness
- \*14. Witnessed someone being killed or seriously injured
- \*15. Unexpectedly discovered a dead body
- \*16. Learned that a close friend or relative was raped or sexually assaulted
- \*17. Learned that a close friend or relative was seriously physically attacked
- \*18. Learned that a close friend or relative was seriously injured in a motor vehicle crash
- \*19. Learned that a close friend or relative was seriously injured in any other accident
- \*20. Experienced the sudden, unexpected death of a close friend or relative
- \*21. Caused serious injury, harm or death to someone else
- \*22. Witnessed severe human suffering
- \*33. Had a serious operation
- \*35. Been exposed to toxic substances (like dangerous chemicals or radiation)
- \*37. Experienced any other extraordinarily stressful situation or event

**[CREATE COUNT OF \*D ITEMS ANSWERED AFFIRMATIVELY (YES, OR ANY EXPOSURE). LIST AS POSSIBLE DEPLOYMENT-RELATED TRAUMAS IN J28 PER INSTRUCTIONS]**

(IF \*D41a=1) Experiencing combat as a member of a combat unit

(IF \*D41b=1) Experiencing combat as a member of a medical team, helicopter crew or being on corpse detail

(IF \*D53d=1) Being injured or wounded during most recent deployment



## INSTRUCTIONS

IF ANY YES \*Ha TRAUMA QUESTIONS, CREATE TWO LISTS: DEPLOYMENT RELATED TRAUMAS AND NON-DEPLOYMENT RELATED TRAUMAS. ITEMS ANSWERED 'BOTH' IN b SHOULD APPEAR IN BOTH LISTS.

CREATE TWO RANDOM SELECTIONS FROM EACH LIST FOR J1 NON-DEPLOYMENT AND J28 DEPLOYMENT RELATED

IF HAD NON-DEPLOYMENT TRAUMAS IN PRIOR WAVE AND:

- IF THERE ARE ZERO NON-DEPLOYMENT RELATED TRAUMAS IN CURRENT WAVE, GO TO J2
- IF ONLY 1 NON-DEPLOYMENT RELATED TRAUMA, GO TO Q.J1B
- IF MORE THAN 1 NON-DEPLOYMENT RELATED TRAUMA, GO TO Q.J1

IF DID NOT HAVE NON-DEPLOYMENT TRAUMAS IN PRIOR WAVE AND:

- IF THERE ARE ZERO NON-DEPLOYMENT RELATED TRAUMAS IN CURRENT WAVE, GO TO J28
- IF ONLY 1 NON-DEPLOYMENT RELATED TRAUMA, GO TO Q.J2
- IF MORE THAN 1 NON-DEPLOYMENT RELATED TRAUMA, GO TO Q.J1

## J. Post-Traumatic Stress Disorder

Now, please consider the events we just discussed.

[IF THERE IS ONLY ONE NON-DEPLOYMENT RELATED TRAUMA, SELECT IT AND SKIP TO J1B]

J1. Of the events we just discussed that were not deployment-related, which event would you consider the worst?

[\*H1a- \*H37a RANDOM PICK1], OR

[\*H1a-H37a RANDOM PICK2], OR

one of the other non-deployment related events you experienced?

[PROBE: Would you like me to read the list of items you mentioned?]

- 1 \_\_\_\_\_  
98 [VOL] Don't know  
99 [VOL] Refused

**[LIST NON-DEPLOYMENT EVENTS ANSWERED 'YES' FROM \*H1a-\*H37a TRAUMA QUESTIONS]**

[CATI: IF J1=DK/REF RANDOMLY SELECT A NON-DEPLOYMENT-RELATED EVENT ANSWERED 'YES' FROM \*H1a-\*H37A]

[NOTE: WE ARE NOT PREVENTING THE SAME KIND OF EVENT FROM BEING CHOSEN AS WAS SELECTED IN PRIOR WAVE – MULTIPLE INSTANCES OF THE SAME TYPE OF TRAUMA CAN OCCUR]

[IF IN PRIOR WAVE THEY DID NOT EXPERIENCE A TRAUMA OUTSIDE OF MOST-RECENT DEPLOYMENT SKIP TO J2.]

J1B. Now, the last time we spoke, you told us one of the worst events you had experienced was [INSERT PRIOR WAVE DUWNT/WORST NON-DEPLOYMENT RELATED TRAUMA]. Please consider this event as well as the event you just told us was the worst from this past year.

Of these two events, which event would you consider the worst? [DISPLAY WORST NON-DEPLOYMENT TRAUMA FROM PRIOR WAVE AND WORST NON-DEPLOYMENT TRAUMA FROM CURRENT WAVE] [IF THEY ARE THE SAME CATEGORY OF TRAUMA, BRING THE QUESTION TO THE SCREEN BECAUSE THE RESPONDENT WILL STILL BE ABLE TO CHOOSE AMONG THE TWO TRAUMA INSTANCES FOR REFERENCE EVEN THOUGH THE DATA WILL NOT DIFFERENTIATE THEM.]

- 1 \_\_\_\_\_ (PRIOR WAVE EVENT)  
2 \_\_\_\_\_ (CURRENT WAVE EVENT)

- 98 [VOL] Don't know  
99 [VOL] Refused

[CATI: IF J1B=DK/REF RANDOMLY SELECT ONE OF TWO EVENTS]

**[CATI: DEFINE "WORST NON-DEPLOYMENT RELATED TRAUMA" AS ANSWER TO J1B, DUWNT FROM PRIOR WAVE IF NO TRAUMAS OCCURRED IN CURRENT WAVE LIST OR SINGLE NON-DEPLOYMENT EVENT CODED FROM \*H1a-\*H37a TRAUMA QUESTIONS]**

In this next section, I'm going to ask about this event: [WORST N-D TRAUMA].  
[READ IF PRIOR WAVE TRAUMA WAS SELECTED: (You may recall talking about it in your last interview.)

**[NOTE: IF RESPONDENT DOES NOT RECALL THE EVENT FROM LAST TIME, SAY: "I realize that you may not remember discussing this event last time, but let me go through the questions to see if anything jars your memory of it." – IF RESPONDENT DOESN'T RECALL THE EVENT, THEN CODE AS "NOT SURE" IN J2 TO J5 AND, "NOT AT ALL" IN J6 TO J22]**

[CATI: USE A NEW SCREEN FOR J2]

[IF "WORST NON-DEP TRAUMA" IS FROM PRIOR WAVE, SKIP TO J6, ELSE ASK:]

- J2. During approximately what month and year did this event -- [WORST N-D TRAUMA] -- occur?  
[PROBE: Your best estimate is fine.] [IF THERE WAS MORE THAN ONE OCCURRENCE OF THE EVENT, THEN PROBE: Thinking about the WORST time this happened, what year was it? IF THE EVENT WAS ONGOING, PROBE: Thinking about the WORST time during this period, what year was it?

- 1     \_\_\_\_/\_\_\_\_ [RANGE: 1939-CURRENT YEAR]  
      M M   Y Y   Y Y  
8     [VOL] Don't know  
9     [VOL] Refused

**[IF C10gFLG="1" THEN ASK J3 IF MONTH AND YEAR REPORTED IN J2 IS THE SAME AS THE MOST RECENT DEPLOYMENT IN C12]**

- J3. Was this before or after you left on your most recent deployment?

- 1 Before  
2 After  
3 (VOL) During  
8 (VOL) Not sure  
9 (VOL) Refused

Now I'm going to ask you about different thoughts and feelings you may have had because of this event -- [WORST N-D TRAUMA].

J4. When this event occurred, did you feel terrified?

- 1 Yes
- 2 No
- 8 [VOL] Don't know
- 9 [VOL] Refused

J5. When this event occurred, did you feel helpless?

- 1 Yes
- 2 No
- 8 [VOL] Don't know
- 9 [VOL] Refused

[CATI NOTE: Display the event at the top of screens for questions J6-J13 and J22a – J22d only for reference]

Now I'm going to ask you about problems and complaints you may have had because of this event. Please tell me how much you were ever bothered by each of these problems in relation to this stressful experience. SINCE YOUR LAST INTERVIEW in [month] of [year], [ITEM].

READ IN ORDER	Not at all	A little bit	Moderately	Quite a bit	Extremely	(VOL) DK	(VOL) RF
J6. How much were you ever bothered by: Repeated, disturbing memories, thoughts, or images of this stressful experience? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J7. How much were you ever bothered by: Repeated, disturbing dreams of this stressful experience? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J8. How much were you ever bothered by: Suddenly acting or feeling as if this stressful experience were happening again (as if you were reliving it)? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9

J9. How much were you ever bothered by: Feeling very upset when something reminded you of this stressful experience? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J10. How much were you ever bothered by: Having physical reactions such as heart pounding, trouble breathing, sweating when something reminded you of this stressful experience? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J11. How much were you ever bothered by: Avoiding thinking about or talking about this stressful experience or avoiding having feelings related to it? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J12. How much were you ever bothered by: Avoiding activities or situations because they reminded you of this stressful experience? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J13. How much were you ever bothered by: Trouble remembering important parts of this stressful experience? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J14. How much were you ever bothered by: Loss of interest in activities that you used to enjoy (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J15. How much were you ever bothered by: Feeling distant or cut off from other people? (Would you say not	1	2	3	4	5	8	9

at all, a little bit, moderately, quite a bit, or extremely?)							
J16. How much were you ever bothered by: Feeling emotionally numb or being unable to have loving feelings for those close to you? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J17. How much were you ever bothered by: Feeling as if your future will somehow be cut short? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J18. How much were you ever bothered by: Trouble falling or staying asleep? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J19. How much were you ever bothered by: Feeling irritable or having angry outbursts? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J20. How much were you ever bothered by: Having difficulty concentrating? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J21. How much were you ever bothered by: Being "super-alert" or watchful or on guard? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J22. How much were you ever bothered by: Feeling jumpy or easily startled? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J22a. Having negative changes in the way you thought about yourself, other people, or the	1	2	3	4	5	8	9

future after the stressful experience (For example: thinking you are a really bad person, you can never trust anyone again, that nothing good can ever happen, that you will never be able to have a good relationship, marriage or future, or that your life will be cut short.) (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)							
J22b. Doing dangerous or self-destructive things such as driving too fast, heavy drug or alcohol use, driving after drinking too much, or trying to injure or harm yourself? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J22c. Thinking that the stressful event happened because you or someone else, who didn't directly harm you, did something wrong or didn't do everything possible to prevent it, or because of something about you. (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J22d. Having a very negative emotional state, for example, you were experiencing lots of fear, anger, guilt shame or horror after the stressful experience.	1	2	3	4	5	8	9

**[IF ANY J6 – J22d > 1 EXCLUDING DON'T KNOW OR REFUSED, GO TO J23, OTHERWISE GO TO J28.]**

J23. How difficult did these problems make it for you to do your work, take care of things at home, or get along with other people? Would you say READ CHOICES]?

- 1 Not difficult at all
- 2 Somewhat difficult
- 3 Very difficult
- 4 Extremely difficult
- 8 [VOL] Don't know
- 9 [VOL] Refused

J23a. When you had several of these bad moods, feelings, and memories, how distressing was it for you? Was it [READ CHOICES]?

- 1 Not at all distressing
- 2 Mildly distressing
- 3 Moderately distressing
- 4 Severely distressing
- 8 [VOL] Don't know
- 9 [VOL] Refused

**[ASK J24 ONLY IF MORE THAN ONE QJ6-QJ22d ANSWERED 2-6, OTHERWISE GO TO J25]**

J24. Did these experiences or feelings you've had ever seem to go together or happen at the same time?

- 1 Yes
- 2 No
- 8 [VOL] Don't know
- 9 [VOL] Refused

J25. How soon after this stressful experience did you start to have any of these problems you've mentioned?  
[READ CHOICES IF NEEDED TO PROBE]

- 1 Same day
- 2 That week
- 3 Within 30 days
- 4 Within 6 months
- 5 Within 1 year
- 6 More than 1 year [ASK J25a]
- 8 [VOL] Don't know
- 9 [VOL] Refused

[IF J25=6 ASK J25a, OTHER GO TO J26]

J25a. Can you tell me about what month and year the problems started?

\_\_/\_\_/\_\_\_\_ [RANGE: 1940-CURRENT YEAR]  
MM YYYY

- 8 [VOL] Don't Know
- 9 [VOL] Refused

J26. What was the longest period of time during which you were having these problems? [READ CHOICES IF NEEDED TO PROBE]

- 1 Less than 1 month
- 2 Between 1 and 3 months
- 3 Between 3 and 6 months
- 4 Between 6 months and 1 year
- 5 More than 1 year
- 8 [VOL] Don't know
- 9 [VOL] Refused

J27. When was the most recent time that you had any of these problems as a result of this stressful experience? [READ CHOICES IF NEEDED TO PROBE]

- 1 Within the last week
- 2 Within the last 30 days
- 3 Over a month ago, but within the past 3 months,
- 4 Over 3 months ago, but within the past 6 months,
- 5 Over 6 months ago, but within the past 12 months,
- 6 More than 12 months ago [ASK J27a]
- 8 [VOL] Don't know
- 9 [VOL] Refused

[IF J27=6 ASK J27a, OTHER GO TO NEXT SECTION]

J27a. Can you tell me about what month and year the problems stopped?

\_\_ / \_\_ \_\_ \_\_ [RANGE: 1940-CURRENT YEAR]  
MM YYYY

8 [VOL] Don't Know

9 [VOL] Refused



## CATI INSTRUCTIONS

IF NEVER DEPLOYED (C10=0), GO TO SECTION Z

IF NO “WORST DEPLOYMENT TRAUMA” DISCUSSED IN PRIOR WAVE AND:

- IF NO DEPLOYMENT RELATED TRAUMAS IN CURRENT WAVE, GO TO SECTION Z
- IF ONLY ONE DEPLOYMENT TRAUMA IN CURRENT WAVE, GO TO J31
- IF MORE THAN ONE DEPLOYMENT-RELATED EVENT IN CURRENT WAVE GO TO Q.J28

IF A “WORST DEPLOYMENT TRAUMA” DISCUSSED IN PRIOR SURVEY AND:

- IF NO DEPLOYMENT RELATED TRAUMAS IN CURRENT WAVE, GO TO Q.J31
- IF ONLY ONE DEPLOYMENT TRAUMA IN CURRENT WAVE, GO TO Q.J28B
- IF MORE THAN ONE DEPLOYMENT-RELATED EVENTS IN CURRENT WAVE, GO TO Q.J28

## DEPLOYMENT-RELATED PTSD

Now, please think about stressful experiences you have had that were **deployment-related**.

J28. You mentioned that you experienced stressful events related to your most recent deployment such as  
[\*H1a-H37a RANDOM PICK1], OR  
[\*H1a-H37a RANDOM PICK2],

. [IF SUM(D\*ITEMS)>0, READ: You also told us earlier that you experienced other events during your most recent deployment such as  
[\*D RANDOM PICK1], OR  
[\*D RANDOM PICK2]

Thinking about these deployment-related events we have already discussed or some other deployment-related event, which event would you consider the worst? [PROBE: Would you like me to read the list of items you mentioned?]

[CATI: SHOW ALL TRAUMAS IN THE LIST FROM \*H1b-\*H37b & \*D ITEMS & \*D ITEMS + OTHER]

1  
97 OR SOME OTHER EVENT RELATED TO YOUR MOST RECENT DEPLOYMENT? (SPECIFY)  
98 [VOL] Don't know  
99 [VOL] Refused

[CATI: IF J28 IS “DK” OR “REF” RANDOMLY SELECT TRAUMA FROM LIST OF DEPLOYMENT RELATED EVENTS FROM \*H1b-\*H37b & \*D ITEMS – EXCLUDE “WORST NON-DEPLOYMENT RELATED TRAUMA” FROM THIS RANDOM SELECTION]

[IF NO DEPLOYMENT RELATED TRAUMAS FROM PRIOR WAVE, SKIP TO J31]

J28B. Now I also want you to consider [SINGLE TRAUMA OR J28A ANSWER] AS WELL AS the event you told us about from your previous deployment [PRIOR WAVE DUWDT/ INSERT DEPLOYMENT RELATED TRAUMA]. (NOT CALLING WORST BECAUSE IT MAY HAVE BEEN A RANDOM PICK AND DON'T WANT TO HAVE SOMEONE TRY TO CHANGE PRIOR WAVE ANSWERS]

Which of these two events would you consider the worst? [DISPLAY WORST DEPLOYMENT RELATED TRAUMA FROM PRIOR WAVE AND WORST DEPLOYMENT RELATED TRAUMA FROM CURRENT WAVE] [IF THEY ARE THE SAME CATEGORY OF TRAUMA, BRING THE QUESTION TO THE SCREEN BECAUSE THE RESPONDENT WILL STILL BE ABLE TO CHOOSE AMONG THE TWO TRAUMA INSTANCES FOR REFERENCE EVEN THOUGH THE DATA WILL NOT DIFFERENTIATE THEM.]

- 1        \_\_\_\_\_ (PRIOR WAVE EVENT)
- 2        \_\_\_\_\_ (CURRENT WAVE EVENT)
- 98      [VOL] Don't know
- 99      [VOL] Refused

**DEFINE "WORST DEP TRAUMA" AS ANSWER TO J28B OR DUWDT IF NO TRAUMAS FROM MOST RECENT DEPLOYMENT (OR C10GFLG="2") OR SINGLE TRAUMA FROM MOST RECENT DEPLOYMENT.**

"In this next section, I am going to ask about this event: [WORST PRIOR WAVE DEPLOYMENT RELATED TRAUMA]. You may recall talking about it in your last interview."

**[NOTE: IF RESPONDENT DOES NOT RECALL THE EVENT FROM LAST TIME, SAY: "I realize that you may not remember discussing this event last time, but let me go through the questions to see if anything jars your memory of it." – IF RESPONDENT DOESN'T RECALL THE EVENT, THEN CODE AS "NOT AT ALL" IN J32 TO J48d]**

[IF "WORST DEP TRAUMA" IS FROM PRIOR WAVE, SKIP TO J32, ELSE ASK:]

[CATI INSTRUCTION: NEW SCREEN]

J31. During approximately what month and year did [WORST DEP TRAUMA] occur?  
[READ IF W1 TRAUMA WAS SELECTED: (Which you told us was the worst event from your previous deployment, you may recall talking about it in your last interview.)]

- 1        \_\_\_\_/\_\_\_\_ [RANGE: 1939-CURRENT YEAR]  
         M M Y Y Y Y
- 8        [VOL] Don't know
- 9        [VOL] Refused

Now I'm going to ask you about different thoughts and feelings you may have had because of [WORST DEP TRAUMA].

J31a. When this event occurred, did you feel terrified?

- 1        Yes
- 2        No
- 8        [VOL] Don't know
- 9        [VOL] Refused

J31b. When this event occurred, did you feel helpless?

- 1        Yes
- 2        No
- 8        [VOL] Don't know
- 9        [VOL] Refused

[CATI NOTE: Display the event at the top of screens J32-J39 and J48a – J48d only for reference]  
 Now I'm going to ask you about problems and complaints you may have had because of this event that was related to your deployment. Please tell me how much you were ever bothered by each of these problems in relation to this stressful experience. SINCE YOUR LAST INTERVIEW in [month] of [year], [ITEM].

READ IN ORDER	Not at all	A little bit	Moderately	Quite a bit	Extremely	(VOL) DK	(VOL) RF
J32. How much were you ever bothered by: Repeated, disturbing memories, thoughts, or images of this stressful experience? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J33. How much were you ever bothered by: Repeated, disturbing dreams of this stressful experience? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J34. How much were you ever bothered by: Suddenly acting or feeling as if this stressful experience were happening again as if you were reliving it? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J35. How much were you ever bothered by: Feeling very upset when something reminded you of this stressful experience? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J36. How much were you ever bothered by: Having physical reactions, such as heart pounding, trouble breathing, sweating when something reminded you of this stressful experience? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J37. How much were you ever bothered by: Avoiding thinking about or talking about this stressful experience or	1	2	3	4	5	8	9

avoiding having feelings related to it? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)							
J38. How much were you ever bothered by: Avoiding activities or situations because they reminded you of this stressful experience? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J39. How much were you ever bothered by: Trouble remembering important parts of this stressful experience? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J40. How much were you ever bothered by: Loss of interest in activities that you used to enjoy? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J41. How much were you ever bothered by: Feeling distant or cut off from other people? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J42. How much were you ever bothered by: Feeling emotionally numb or being unable to have loving feelings for those close to you? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J43. How much were you ever bothered by: Feeling as if your future will somehow be cut short? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J44. How much were you ever bothered by: Trouble falling or staying asleep?	1	2	3	4	5	8	9

(Would you say not at all, a little bit, moderately, quite a bit, or extremely?)							
J45. How much were you ever bothered by: Feeling irritable or having angry outbursts? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J46. How much were you ever bothered by: Having difficulty concentrating? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J47. How much were you ever bothered by: Being "super-alert" or watchful or on guard? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J48. How much were you ever bothered by: Feeling jumpy or easily startled? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J48a. Having negative changes in the way you thought about yourself, other people, or the future after the stressful experience (For example: thinking you are a really bad person, you can never trust anyone again, that nothing good can ever happen, that you will never be able to have a good relationship, marriage or future, or that your life will be cut short.) (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J48b. Doing dangerous or self-destructive things such as driving too fast, heavy drug or alcohol use, driving after drinking too much, or trying to injure or harm yourself? (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)	1	2	3	4	5	8	9
J48c. Thinking that the stressful	1	2	3	4	5	8	9

event happened because you or someone else, who didn't directly harm you, did something wrong or didn't do everything possible to prevent it, or because of something about you. (Would you say not at all, a little bit, moderately, quite a bit, or extremely?)							
J48d. Having a very negative emotional state, for example, you were experiencing lots of fear, anger, guilt shame or horror after the stressful experience.	1	2	3	4	5	8	9

**[IF ANY OF QUESTIONS J32-J48d > 1 EXCLUDING DON'T KNOW OR REFUSED, GO TO J49; OTHERWISE GO TO NEXT SECTION.]**

J49. How difficult did these problems make it for you to do your work, take care of things at home, or get along with other people? Would you say [READ CHOICES]?

- 1 Not difficult at all
- 2 Somewhat difficult
- 3 Very difficult
- 4 Extremely difficult
- 8 [VOL] Don't know
- 9 [VOL] Refused

J49a. When you had several of these bad moods, feelings, and memories, how distressing was it for you? Was it [READ CHOICES]?

- 1 Not at all distressing
- 2 Mildly distressing
- 3 Moderately distressing
- 4 Severely distressing
- 8 [VOL] Don't know
- 9 [VOL] Refused

**[ASK J50 ONLY IF MORE THAN ONE QJ32-QJ48d ANSWERED 2-5 – ELSE GO TO J51]**

J50. Did these experiences or feelings you've had ever seem to go together or happen at the same time?

- 1 Yes
- 2 No
- 8 [VOL] Don't know
- 9 [VOL] Refused

J51. How soon after this stressful experience did you start to have any of these problems you've mentioned?  
[READ CHOICES IF NEEDED TO PROBE]

- 1 Same day
- 2 That week
- 3 Within 30 days
- 4 Within 6 months
- 5 Within 1 year
- 6 More than 1 year [ASK J51a]
- 8 [VOL] Don't know
- 9 [VOL] Refused

[IF J51=6 ASK J51a, OTHER GO TO J52]

J51a. Can you tell me about what month and year the problems started?

-- / -- -- [RANGE: 1940-CURRENT YEAR]

MM YYYY

- 8 [VOL] Don't Know
- 9 [VOL] Refused

J52. What was the longest period of time during which you were having these problems? [READ CHOICES IF NEEDED TO PROBE]

- 1 Less than 1 month
- 2 Between 1 and 3 months
- 3 Between 3 and 6 months
- 4 Between 6 months and 1 year
- 5 More than 1 year
- 8 [VOL] Don't know
- 9 [VOL] Refused

J53. When was the most recent time you had any of these problems as a result of this stressful experience?  
[READ CHOICES IF NEEDED TO PROBE]

- 1 Within the last week
- 2 Within the last 30 days
- 3 Over a month ago, but within the past 3 months,
- 4 Over 3 months ago, but within the past 6 months,
- 5 Over 6 months ago, but within the past 12 months,
- 6 More than 12 months ago [ASK J53a]
- 8 [VOL] Don't know
- 9 [VOL] Refused

[IF J53=6 ASK J53a, OTHER GO TO NEXT SECTION]

J53a. Can you tell me about what month and year the problems stopped?

-- / -- -- [RANGE: 1940-CURRENT YEAR]

MM YYYY

- 8 [VOL] Don't Know
- 9 [VOL] Refused

## Z. Anger

These next questions are about how you may have felt or behaved in the past 12 months. I'd like to know how much you agree or disagree with each statement.

The (first/next) is [STATEMENT]. Do you agree, disagree, OR do you neither agree nor disagree (3)?

[IF AGREE: Do you strongly agree (5) or somewhat agree (4)?]

[IF DISAGREE: Do you strongly disagree (1) or somewhat disagree (2)?]

(ROTATE)	Strongly disagree	Somewhat disagree	Neither agree nor disagree	Somewhat agree	Strongly agree	(VOL) DK	(VOL) RF
Z1. I often find myself getting angry at people or situations	1	2	3	4	5	8	9
Z2. When I get angry, I get really mad	1	2	3	4	5	8	9
Z3. When I get angry at someone, I want to clobber the person	1	2	3	4	5	8	9
Z4. My anger prevents me from getting along with people as well as I'd like to	1	2	3	4	5	8	9
Z5. I have trouble controlling violent behavior, for example hitting someone	1	2	3	4	5	8	9



## K. Depression

The next questions are about ways you may have been feeling or may have behaved.

Ka. Since we last spoke in [MONTH] of [YEAR], did you ever have a period of at least two weeks during which you were bothered by [ITEM]?

Yes

No

(VOL) Don't know

(VOL) Refused

[IF 'YES' to a , ASK b and c]

b. When this occurred, were you bothered by this problem: [READ LIST]

c. Did this occur during the past 30 days, or not?

	a. Since we last spoke, did you ever have a period of at least two weeks during which you were bothered by		b. When this occurred, were you bothered by this problem: [READ LIST]				c. Did this occur during the past 30 days, or not?	
[DO NOT SHUFFLE ITEMS]	Yes	No	Several days	More than half the days	Nearly every day	(vol) DK/REF	Yes	No
K1. Little interest or pleasure in doing things.	1	2	1	2	3	8/9	1	2
K2. Feeling down, depressed, or hopeless	1	2	1	2	3	8/9	1	2
K3. Trouble falling or staying asleep, OR sleeping too much	1	2	1	2	3	8/9	1	2
K4. Feeling tired or having little energy	1	2	1	2	3	8/9	1	2
K5. Poor appetite OR overeating	1	2	1	2	3	8/9	1	2
K6. Feeling bad about yourself – or that you are a failure or have let yourself or your family down	1	2	1	2	3	8/9	1	2
K7. Trouble concentrating on things, such as reading the newspaper or watching television	1	2	1	2	3	8/9	1	2
K8. Moving or speaking so slowly that other people could have noticed? Or the opposite – being so fidgety or restless that you have been moving around a lot more than usual	1	2	1	2	3	8/9	1	2
K9. Thoughts that you would be better off dead or of hurting yourself in some way	1	2	1	2	3	8/9	1	2

**[IF 'YES' TO ANY QUESTIONS K1-K9 GO TO K10; OTHERWISE GO TO K14.]**

K10. How difficult have these problems ever made it for you to do your work, take care of things at home, or get along with other people? Would you say [READ CHOICES]

[NOTE: READ ONLY IF NEEDED: "these problems" refers to problems that you mentioned being bothered by in just the past several questions which were about how you were feeling or may have behaved.

- 1 Not difficult at all
- 2 Somewhat difficult
- 3 Very difficult
- 4 Extremely difficult
- 8 [VOL] Don't know
- 9 [VOL] Refused

**[ASK IF MORE THAN 1 'YES' TO K1-K9 – ELSE SKIP TO K11a]**

K11. Did these experiences or feelings you've had ever seem to go together or happen at the same time?

- 1 Yes
- 2 No
- 8 [VOL] Don't know
- 9 [VOL] Refused

K11a. What was the longest period of time during which you were having these problems? [READ CHOICES IF NEEDED TO PROBE]

- 1 Less than 1 month
- 2 Between 1 and 3 months
- 3 Between 3 and 6 months
- 4 Between 6 months and 1 year
- 5 More than 1 year
- 8 [VOL] Don't know
- 9 [VOL] Refused

K12. At what age did you first begin to have these problems?

\_\_\_\_\_ [AGE; RANGE 5-97] [98 = DON'T KNOW; 99 = REFUSE]

**[IF K12 IS <13, PROBE:]**

K12a When you say [ANSWER], is that how old you were at the time?

- Yes [CONTINUE]
- No [RETURN TO K12 FOR NEW RESPONSE]

[If C10gFLG = "1" and ANSWER to K12 is same as ANSWER from C14 PLUS OR MINUS ONE YEAR go to K12b, otherwise go to K13]

K12b. Did this start before, after or during your most recent deployment?

- 1 Before
- 2 After
- 3 During
- 8 [VOL] Don't know
- 9 [VOL] Refused

K13. When was the most recent time that you had any of these problems? [READ CHOICES IF NEEDED TO PROBE]

- 1 Within the last week
- 2 Within the last 30 days
- 3 Over a month ago, but within the past 3 months,
- 4 Over 3 months ago, but within the past 6 months,
- 5 Over 6 months ago, but within the past 12 months,
- 6 More than 12 months ago [ASK K13a]
- 8 [VOL] Don't know
- 9 [VOL] Refused

[IF K13=6 ASK K13a, OTHER GO TO NEXT SECTION]

K13a. Can you tell me about what month and year the problems stopped?

\_\_/\_\_\_\_ [RANGE: 1940-CURRENT YEAR]

MM YYYY

- 8 [VOL] Don't Know
- 9 [VOL] Refused

[ASK ALL] [If K14a1 (b1, c1, d1) and (C10gFLG="1")]

K14. Since we last spoke, have you been diagnosed by a physician or health professional with...

a. Posttraumatic stress disorder (P.T.S.D.)

- 1 Yes
- 2 No
- 8 [VOL] Don't know
- 9 [VOL] Refused

a1. Was this before, since or both before and since your most recent deployment?

- 1 BEFORE
- 2 SINCE
- 3 BOTH
- 7 [VOL] During
- 8 [VOL] Don't know
- 9 [VOL] Refused

(Since we last spoke,) have you been diagnosed by a physician or health professional with

b. Depression

- 1 Yes
- 2 No
- 8 [VOL] Don't know
- 9 [VOL] Refused

b1 Was this before, since or both before and since your most recent deployment?

- 1 BEFORE
- 2 SINCE
- 3 BOTH
- 7 [VOL] During
- 8 [VOL] Don't know
- 9 [VOL] Refused

(Since we last spoke,) have you been diagnosed by a physician or health professional with  
c. Anxiety Disorder

1 Yes

2 No

8 [VOL] Don't know

9 [VOL] Refused

c1. Was this before, since or both before and since your most recent deployment?

1 BEFORE

2 SINCE

3 BOTH

7 [VOL] During

8 [VOL] Don't know

9 [VOL] Refused

(Since we last spoke,) have you been diagnosed by a physician or health professional with  
d. Traumatic Brain Injury (TBI)

1 Yes

2 No

8 [VOL] Don't know

9 [VOL] Refused

c1. Was this before, since or both before and since your most recent deployment?

1 BEFORE

2 SINCE

3 BOTH

7 [VOL] During

8 [VOL] Don't know

9 [VOL] Refused

HH. Grief

Now, changing topics...

HH1. Since we last spoke have you experienced the death of a close friend or loved one?

1 Yes

2 No

8 [VOL don't know]

9 [VOL refused]

[If yes go to HH1a, otherwise go to section W]

HH1a. Approximately what month and year did this person pass away?

[PROBE: If more than one death has occurred, please think of the event that affected you the most.]

1        /        [RANGE: 2009-CURRENT YEAR]  
      M M   Y Y   Y Y

8 [VOL don't know]

9 [VOL refused]

HH1c.

How did you know this person? Was this a friend or a family member?

[READ ONLY IF NEEDED TO PROBE]

- 1 Friend through the military
- 2 Friend - non-military
- 3 Girlfriend/Boyfriend
- 4 Parent
- 5 Spouse/Partner
- 6 Aunt/Uncle/Cousin/Niece/Nephew
- 7 Sibling
- 8 Child
- 9 In-law
- 10 Other [SPEC]
- 99 Refused

HH1b. How much have you been having feelings of distress or problems dealing with this experience? [READ CHOICES]

- 1 Not at all
- 2 Mildly
- 3 Moderately
- 4 A lot
- 8 [VOL don't know]
- 9 [VOL refused]

Do reminders of this individual such as photos, situations, music, or places etc. cause you....

READ CHOICES	Never	A little bit of the time	Quite a bit of the time	A lot of the time	[VOL]DK	[VOL]RF
HH2 .....to feel longing for this individual ?	1	2	3	4	8	9
HH3 ... to feel loneliness?	1	2	3	4	8	9
HH4 ....to cry about or for this individual?	1	2	3	4	8	9
HH5 ....to feel sadness?	1	2	3	4	8	9
HH6. ....to feel loss of enjoyment?	1	2	3	4	8	9

## W. Risky Health Behaviors

Next, I have 2 questions about driving...

W1. How often do you use seat belts when you drive or ride in a car? Would you say: [READ CHOICES]

- 1 Always
- 2 Nearly always
- 3 Sometimes
- 4 Seldom
- 5 Never
- 6 [VOL] Never ride in a car
- 8 [VOL] Don't Know
- 9 [VOL] Refused

IF ANSWER TO W1 IS "NEVER RIDE IN A CAR" THEN SKIP TO NEXT SERIES

W2. In the past 30 days, how many times have you driven when you've had perhaps too much to drink?

\_\_\_\_\_ Number of times [0-30]

- 31 31+
- 98 [VOL] Don't Know
- 99 [VOL] Refused

## X. Work place re-integration

S13a. Now I have some questions about your current work situation. For each choice, tell me whether or not it applies to you. **[READ ENTIRE LIST AND SELECT ALL THAT APPLY]** Are you...

- 1 Working full-time in a civilian job
- 2 Working part-time in a civilian job
- 3 Working full-time for the Guard or Reserve
- 4 Working part time for the Guard or Reserve
- 5 Looking for work or unemployed
- 6 Retired
- 7 A homemaker
- 8 A student
- 9 On maternity or paternity leave
- 10 On illness or sick leave
- 11 On disability
- 12 Some other work situation (SPECIFY: \_\_\_\_\_)
- 13 [VOL] Active duty military (not Guard or Reserve)
- 98 [VOL] Don't know
- 99 [VOL] Refused

[IF "Active duty military (not Guard or Reserve)" ONLY, SKIP TO SECTION XX]

**[ASK S13b IF “LOOKING FOR WORK OR UNEMPLOYED” – ELSE GO TO S13c]**

S13b. For how many months have you been looking for work?

- 1      Record answer] \_\_\_\_\_
- 98     [VOL] Don't know
- 99     [VOL] Refused

**[IF WORKING FULL TIME (1) OR PART TIME (2) IN A CIVILIAN JOB IN S13a, SKIP TO S14]**

S13c. What kind of work did you do in your most recent civilian job? [CLARIFY INCOMPLETE ANSWERS LIKE “SALES,” “MANUFACTURING” OR “CONSULTANT” PROBE: “Can you be more specific?” Can you elaborate?” “What was the job title?”]

- 1      Record answer]
- 8      [VOL] Don't Know
- 9      [VOL] Refused

S13d. What kind of business or industry did you work in? [CLARIFY GENERAL ANSWERS LIKE “FINANCE” OR “HEALTHCARE” PROBE: “Can you be more specific?” “Can you elaborate?”]

- 1      Record answer] \_\_\_\_\_
- 8      [VOL] Don't Know
- 9      [VOL] Refused

**[ASK S14 IF WORKING FULL TIME (1) OR PART TIME (2) IN A CIVILIAN JOB IN S13a]**

S14. As an official part of your civilian job, do you supervise the work of other employees, that is do you have responsibility for, or tell other employees what to do?

- 1      Yes
- 2      No
- 8      [VOL] Don't know
- 9      [VOL] Refused

**[ASK S14a IF WORKING FULL TIME (3) OR PART TIME (4) FOR GUARD/RESERVE IN S13a]**

S14a. As an official part of your job with the Guard or Reserve, do you supervise the work of other employees, that is have responsibility for, or tell other employees what to do?

- 1      Yes
- 2      No
- 8      [VOL] Don't know
- 9      [VOL] Refused

[if S13a = 3 “Full time for the Guard/Reserve” OR S13a = 4 “Part time for the Guard/Reserve” OR Both “Full and Part time for the Guard/Reserve” and no other S13a option selected then skip to section XX]

Next, we have some additional questions on your current civilian job status..

[ASK IF WORKING FULL TIME (1) OR PART TIME (2) IN A CIVILIAN JOB IN S13a – ELSE SKIP TO X8a]  
X2b. What kind of work do you do? [CLARIFY INCOMPLETE ANSWERS LIKE “SALES,”  
“MANUFACTURING” OR “CONSULTANT” PROBE: “Can you be more specific?” Can you elaborate?”  
“What is the job title?”]

- 1 Record answer] \_\_\_\_\_
- 8 [VOL] Don't Know
- 9 [VOL] Refused

X2c. What kind of business or industry do you work in? [CLARIFY GENERAL ANSWERS LIKE  
“FINANCE” OR “HEALTHCARE” PROBE: “Can you be more specific?” “Can you elaborate?”]

- 1 Record answer] \_\_\_\_\_
- 8 [VOL] Don't Know
- 9 [VOL] Refused

X3. How long have you been employed by your current civilian employer?

- 1 Less than 6 months
- 2 6 months to 1 year
- 3 1 year to 2 years
- 4 2 years to 5 years
- 5 5 years to 10 years
- 6 More than 10 years
- 7 I am not employed
- 8 [VOL] Don't Know
- 9 [VOL] Refused

[X8a ADDED 2-8-2011]

[IF C10>0 and C10<98/99 THEN GO TO X8a, OTHERWISE SKIP TO X17]

X8a. When you returned from your most recent military deployment, how much time off did you have before you returned to work?

- 1 ANSWER IN DAYS [RANGE= 0-99]
- 2 ANSWER IN WEEKS [RANGE= 1-99]
- 3 ANSWER IN MONTHS [RANGE= 1-99]
- 4 I did not return to work - [GO TO X10]
- 8 [VOL] Don't Know
- 9 [VOL] Refused

X8. Which of the following best describes your employment status when you returned from your most recent military deployment? [READ CHOICES]

- 1 Returned to the same employer as prior to deployment [GO TO X9]
- 2 Hired by a different employer [GO TO X10]
- 3 Did not return to work [GO TO X10]
- 8 [VOL] Don't Know [GO TO X17]
- 9 [VOL] Refused [GO TO X17]



X9. When you returned to work for your pre-deployment employer, were there any changes in your position?  
Would you say: [READ CHOICES]

- 1 Your responsibilities were the same as before deployment [GO TO X15]
- 2 Your responsibilities were reduced when you returned from deployment [GO TO X15]
- 3 Your responsibilities were increased when you returned from deployment [GO TO X15]
- 4 [VOL] I did not return to the same employer after deployment [GO TO X10]
- 8 [VOL] Don't Know [GO TO X15]
- 9 [VOL] Refused [GO TO X15]

X10. Why did you not return to work for your pre-deployment employer? [DO NOT READ LIST - MULTIPLE RECORD.]

- 1 Pre-deployment employer went out of business
- 2 Changes in pre-deployment employer circumstances while away (for example, layoffs occurred, facilities closed, ownership of company changed, contract ended)
- 3 Pre-deployment employer did not give me prompt re-employment (in other words, within two weeks of my application for reemployment)
- 4 I disliked my pre-deployment job
- 5 I am recuperating from an illness or injury
- 6 I found a better job
- 7 Other [SPECIFY]
- 98 [VOL] Don't Know
- 99 [VOL] Refused

[IF X8A = 4 (DID NOT RETURN TO WORK), SKIP TO X17]

X15. Did you have any of the following experiences when you returned to work after your most recent deployment? [READ LIST – MULTIPLE RECORD].

- 1 I was not given enough time to get back up to speed on the job (e.g., policy, procedure, workload)
- 2 I needed more training to become familiar with safety equipment, information technology, machinery, or other technical challenges to perform well on the job

[READ ITEM 3 ONLY IF X8=1 (RETURNED TO SAME EMPLOYER AFTER DEPLOYMENT)]

- 3 My co-workers or supervisors resented my time away from the job
- 4 I lost income or benefits because of my military deployment
- 5 I had more difficulty balancing competing demands from work and family than before I was deployed
- 6 I gained income or benefits because of my military deployment
- 7 My co-workers or supervisors respected the fact that I am a veteran
- 8 None of these experiences
- 98 [VOL] Don't Know
- 99 [VOL] Refused

[Ask only if answered S13a= 1 or S13a=2, Full or part-time civilian job]

[IF S13a NOT = 1, REMOVE THE WORDS "full-time" FROM X17]

X17. Does your full-time civilian employer provide any of the following types of support to others who serve in the military Reserves? [READ LIST – MULTIPLE RECORD]. [ESGR 14]

- 1 Flexible hours to accommodate military duty
- 2 Continued payment of employee salaries (full, part, differential) when they are absent for military duties
- 3 Continued payments for employee benefits such as life insurance, or pension
- 4 Support to their families such as continued education, childcare, or housing benefits
- 5 Continued health benefits for employees who are absent for military duties for more than one month
- 6 Any other kinds of support [SPECIFY]
- 7 [VOL] None
- 8 [VOL] Don't Know
- 9 [VOL] Refused

[IF YES TO ITEM #2 IN X17, ASK:]

[IF S13a NOT = 1, REMOVE THE WORDS "full-time" FROM X17]

X17a. Does your full-time civilian employer provide full, partial or differential pay when employees are serving in the Reserves?

- 1 Full pay
- 2 Partial pay
- 3 Differential pay
- 7 Other [SPEC]
- 8 Not sure
- 9 Refused

## XX. Caffeine

Now a few questions about caffeinated beverages.

XX1. Considering a caffeinated drink is 1 8oz cup of coffee, a shot of espresso, 1 8oz cup of black/earl grey tea or 1 12oz can of soda or 1 energy drink. Thinking about just the **past 30 days**, on how many days did you drink caffeinated beverages? Your best estimate is fine.

- 1 \_\_\_ Days used of out 30 [0-30]
- 98 [Vol] Don't Know
- 99 [Vol] Refuse

[IF XX1 IS 1 DAYS OR GREATER, GO TO XX2; OTHERWISE GO TO XX3.]

XX2. On the days when you drank a caffeinated beverage over the **past 30 days**, on average, how many drinks did you have each day? Your best estimate is fine. (A caffeinated drink is 1 8oz cup of coffee, a shot of espresso, 1 8oz cup of black/earl grey tea or 1 12oz can of soda or 1 energy drink.)

- 1 \_\_\_ Drinks per day [0-19]
- 20 20 drinks or more
- 98 [VOL] Don't Know
- 99 [VOL] Refused

**[IF C10>0 AND C10<98/99 THEN ASK XX3; OTHERWISE GO TO SECTION M]**

XX3. Thinking about your most recent deployment, in an average 30 day period, how many days did you drink caffeinated beverages? Your best estimate is fine. (A caffeinated drink is 1 8 oz cup of coffee, a shot of espresso, 1 8oz cup of black/earl grey tea or 1 12oz can of soda or 1 energy drink.)

- 1        \_\_\_ Days [0-30]
- 98      [Vol] Don't Know
- 99      [Vol] Refuse

**[IF XX3 IS 1 DAYS OR GREATER AND C10>0 AND C10<98/99 THEN ASK XX4]**

XX4. On the days when you drank a caffeinated beverage during your most recent deployment, on average, how many drinks did you have each day? Your best estimate is fine. (A caffeinated drink is 1 8oz cup of coffee, a shot of espresso, 1 8oz cup of black/earl grey tea or 1 12oz can of soda or 1 energy drink.)

- 1        \_\_\_ Drinks per day [0-19]
- 20      20 drinks or more
- 98      [VOL] Don't Know
- 99      [VOL] Refused

**M. Cigarette Use**

Next, I have a few questions about cigarettes...

M1a. Since we last spoke, did you smoke cigarettes on at least some days?

- 1        Yes **[ASK M1b]**
- 2        No **[SKIP TO NEXT SECTION]**
- 8        [VOL] Don't know **[SKIP TO NEXT SECTION]**
- 9        [VOL] Refused **[SKIP TO NEXT SECTION]**

M1b. At any point in your life, did you smoke cigarettes everyday?

- 1        Yes
- 2        No
- 8        [VOL] Don't know
- 9        [VOL] Refused

M1c. Thinking about just the past 30 days... Out of the past 30 days, how many days did you smoke cigarettes? Your best estimate is fine.

- 1        \_\_\_ Days used out of 30 **[0-30]**
- 98      [VOL] Don't Know
- 99      [VOL] Refused

**[ASK IF M1c IS 1 OR GREATER]**

M1d. In the past 30 days, on those days when you smoked, on average, how many cigarettes did you smoke per day? Your best estimate is fine and a pack = 20.

- 1        \_\_\_ Cigarettes per day **[0-60]**
- 61      61 cigarettes or more
- 98      [VOL] Don't Know
- 99      [VOL] Refused

## **N. Alcohol**

The next series of questions is about drinking alcohol beverages like beer, wine or liquor...

N1. Since we last spoke, did you ever drink alcohol?

- 1 Yes
- 2 No [SKIP TO NEXT SECTION]
- 8 [VOL] Don't know
- 9 [VOL] Refused

**[IF "YES", GO TO NEXT QUESTION; OTHERWISE GO TO NEXT SECTION.]**

### **Since we last spoke:**

N2. Did you need to drink more in order to get the same effect that you did when you first started drinking?

- 1 Yes
- 2 No
- 8 [VOL] Don't know
- 9 [VOL] Refused

N3. Did you have times when you cut down on drinking and as a result your hands shook, you sweated more or felt agitated?

- 1 Yes
- 2 No
- 8 [VOL] Don't know
- 9 [VOL] Refused

N4. Did you drink to avoid these symptoms (for example, "the shakes", sweating or agitation?) or to avoid being hungover?

- 1 Yes
- 2 No
- 8 [VOL] Don't know
- 9 [VOL] Refused

N5. During the times when you drank alcohol, did you end up drinking more than you planned when you started?

- 1 Yes
- 2 No
- 8 [VOL] Don't know
- 9 [VOL] Refused

N6. Have you tried to reduce or stop drinking alcohol but failed?

- 1 Yes
- 2 No
- 8 [VOL] Don't know
- 9 [VOL] Refused

N7. On the days that you drank, did you spend substantial time in obtaining alcohol, drinking, or in recovering from the effects of alcohol?

- 1 Yes
- 2 No
- 8 [VOL] Don't know
- 9 [VOL] Refused

N8. Did you spend less time working, enjoying hobbies, or being with others because of your drinking?

- 1 Yes
- 2 No
- 8 [VOL] Don't know
- 9 [VOL] Refused

N9. Have you continued to drink even though you knew that the drinking caused you physical or mental health problems?

- 1 Yes
- 2 No
- 8 [VOL] Don't know
- 9 [VOL] Refused

**Since we last spoke:**

N10. Have you been intoxicated, high, or hungover from alcohol more than once when you had other responsibilities at school, at work, or at home?

- 1 Yes
- 2 No
- 8 [VOL] Don't know
- 9 [VOL] Refused

**[IF 'YES']**

N11. Did this cause any problems?

- 1 Yes
- 2 No
- 8 [VOL] Don't know
- 9 [VOL] Refused

N12. Have you been intoxicated from alcohol in any situation where you were physically at risk, for example, driving a car, riding a motorbike, using machinery, boating, etc.?

- 1 Yes
- 2 No
- 8 [VOL] Don't know
- 9 [VOL] Refused

N13. Have you had any legal problems because of your drinking, for example, an arrest or disorderly conduct?

- 1 Yes
- 2 No
- 8 [VOL] Don't know
- 9 [VOL] Refused

N14. Have you continued to drink even though your drinking caused problems with your family or other people?

- 1 Yes
- 2 No
- 8 [VOL] Don't know
- 9 [VOL] Refused

N14a. Since we last spoke, have you ever had a craving or strong urge or desire to drink?

- 1 Yes
- 2 No
- 8 [VOL] Don't know

9 [VOL] Refused

**[IF 'YES' TO ANY N2-N14a ASK N15 ELSE SKIP TO N19]**

N15. How difficult have these problems made it for you to do your work, take care of things at home, or get along with other people? Would you [READ CHOICES]?

[NOTE: READ ONLY IF NEEDED : "these problems" refers to problems that you mentioned being bothered by in just the past series of questions which were about alcohol.

- 1 Not difficult at all
- 2 Somewhat difficult
- 3 Very difficult
- 4 Extremely difficult
- 8 [VOL] Don't know
- 9 [VOL] Refused

**[IF 'YES' TO K9a ASK N15a ELSE SKIP TO N16]**

N15a. When you were having these problems, were you more likely to have thoughts that you would be better off dead or of hurting yourself in some way?

- 1 Yes
- 2 No
- 8 [VOL] Don't know
- 9 [VOL] Refused

**[IF 'YES' TO MORE THAN ONE N2-N14a ASK N16 ELSE SKIP TO N16a]**

N16. Did these experiences or feelings you've had ever seem to go together or happen at the same time?

- 1 Yes
- 2 No
- 8 [VOL] Don't know
- 9 [VOL] Refused

N16a. What was the longest period of time during which you were having these problems? [READ CHOICES IF NEEDED TO PROBE]

- 1 Less than one week
- 2 Less than 1 month
- 3 Between 1 and 6 months
- 4 Between 6 months and 1 year
- 5 More than 1 year
- 8 [VOL] Don't know
- 9 [VOL] Refused

N17. At what age did you first begin to have these problems?

\_\_\_\_\_ [AGE; RANGE 5-97] [98 = DON'T KNOW; 99 = REFUSE]

**[IF N17 IS <13, PROBE:]**

N17a When you say [ANSWER], is that how old you were at the time?

Yes [CONTINUE]  
No [RETURN TO N17 FOR NEW RESPONSE]

[If ANSWER to N17 is same as ANSWER from C14 PLUS OR MINUS ONE YEAR go to N17b, otherwise go to N18]

N17b. Did this start before, after or during your most recent deployment?

- 1 Before
- 2 After
- 3 During
- 8 [VOL] Don't know
- 9 [VOL] Refused

N18. When was the most recent time that you had any of these problems? [READ CHOICES IF NEEDED TO PROBE]

- 1 Within the last week
- 2 Within the last 30 days
- 3 Over a month ago, but within the past 3 months,
- 4 Over 3 months ago, but within the past 6 months,
- 5 Over 6 months ago, but within the past 12 months,
- 6 More than 12 months ago [ASK N18a]
- 8 [VOL] Don't know
- 9 [VOL] Refused

[IF N18=6 ASK N18a, OTHER GO TO N19]

N18a. Can you tell me about what month and year the problems stopped?

\_\_\_/\_\_\_ [RANGE: 1940-CURRENT YEAR]  
MM YYYY

- 8 [VOL] Don't Know
- 9 [VOL] Refused

N19. Thinking about just the **past 30 days**, on how many days did you drink any alcoholic beverages? Your best estimate is fine.

- 1 \_\_\_ Days used of out 30 [0-30]
- 98 [Vol] Don't Know
- 99 [Vol] Refuse

[IF N19 IS 1 DAYS OR GREATER, GO TO N20; OTHERWISE GO TO N21a.]

N20. A drink is 1 can or bottle of beer, 1 glass of wine, 1 can or bottle of wine cooler, 1 cocktail, or 1 shot of liquor. On the days when you drank alcohol over the **past 30 days**, on average, how many drinks did you have each day? Your best estimate is fine.

- 1 \_\_\_ Drinks per day [0-19]
- 20 20 drinks or more
- 98 [VOL] Don't Know
- 99 [VOL] Refused

N20c. Thinking about just the **past 30 days**, on how many days did you have **X [CATI X = 5 for men, X = 4 for women]** or more drinks on an occasion?

1        \_\_\_ \_\_\_ Days out 30 [0-30]

98       [Vol] Don't Know

99       [Vol] Refuse

N21a. Thinking about your most recent monthly drill, did you drink any alcoholic beverages during those days?

1        Yes

2        No

8        [VOL] Don't know

9        [VOL] Refused

**[IF N21a IS 'YES', GO TO N21b; OTHERWISE GO TO N22a]**

N21b. A drink is 1 can or bottle of beer, 1 glass of wine, 1 can or bottle of wine cooler, 1 cocktail, or 1 shot of liquor. On the drill days when you drank alcohol, on average, how many drinks did you have each day? Your best estimate is fine.

1        \_\_\_ \_\_\_ Drinks per day [0-19]

20       20 drinks or more

98       [VOL] Don't Know

99       [VOL] Refused

N21c. Thinking about the **most recent monthly drill**, on any single day did you have **X [CATI X = 5 for men, X = 4 for women]** or more drinks?

1        Yes

2        No

8        [VOL] Don't know

9        [VOL] Refused

**[If C10gFLG="1",CONTINUE WITH N22a, OTHERWISE GO TO N23]**

N22a. Thinking about your most recent deployment, did you ever drink any alcoholic beverages?

1        Yes

2        No

8        [VOL] Don't know

9        [VOL] Refused

**[IF N22a IS 'YES', GO TO N22b; OTHERWISE GO TO N23]**

N22b. A drink is 1 can or bottle of beer, 1 glass of wine, 1 can or bottle of wine cooler, 1 cocktail, or 1 shot of liquor. On the days when you drank alcohol during your most recent deployment, on average, how many drinks did you have each day? Your best estimate is fine.

1        \_\_\_ \_\_\_ Drinks per day [0-19]

20       20 drinks or more

98       [VOL] Don't Know

99       [VOL] Refused

We now have some questions about drinking and life in the Reserve.



	Strongly agree	Agree	Disagree	Strongly Disagree	(VOL) DK	(VOL) RF
N23. It's hard to "fit in" in my command if you don't drink	1	2	3	4	8	9
N24. Drinking is part of being in my unit.	1	2	3	4	8	9
N25. Drinking is part of being in the military	1	2	3	4	8	9
N26. Drinking is just about the only recreation available at my unit installation.	1	2	3	4	8	9
N27. At parties or social functions at my unit installation, everyone is encouraged to drink.	1	2	3	4	8	9
N28. At parties or social functions at my unit installation, nonalcoholic beverages are always available	1	2	3	4	8	9
N29. Leadership is tolerant of off-duty alcohol intoxication or drunkenness.	1	2	3	4	8	9
N30. Drinking to the point of losing control is acceptable.	1	2	3	4	8	9
N31. Others in my pay grade at my unit installation believe drinking to the point of losing control is acceptable.	1	2	3	4	8	9

N32. How is your drinking now compared to your drinking prior to entering the military: [READ CHOICES]?

- 1 I drink more now
- 2 I drink about the same
- 3 I drink less now
- 4 I started drinking since entering the military
- 5 I stopped drinking altogether
- 6 I don't drink
- 8 [VOL] Don't know
- 9 [VOL] Refused

## R. Use of Mental Health Services

Now I'm going to ask you about your past use of services that help with problems with emotions or nerves, or problems with the use of alcohol or drugs.

R8g. Since we last spoke in [MONTH] of [YEAR], Did you ever go to see any professionals or self-help groups such as a physician, psychiatrist, psychologist, minister, priest, rabbi or other spiritual advisor, Alcoholics Anonymous or Narcotics Anonymous for problems with your emotions or nerves, or for problems with your use of alcohol or drugs?

- 1 Yes
- 2 No
- 8 [VOL] Don't Know
- 9 [VOL] Refused

[IF R8g=NO/DK/REF SKIP TO SECTION S]

R9. Did you get enough help to meet this need?

- 1 Yes
- 2 No
- 8 [VOL] Don't know
- 9 [VOL] Refused

**[ASK R10b If "YES" TO R8g AND C10g="Yes"]**

R10b. Were any of these visits related to your most recent deployment?

- 1 Yes
- 2 No
- 8 [VOL] Don't Know
- 9 [VOL] Refused

**[ASK R10c If "YES" TO R8g AND R10b="Yes"]**

R10c. How soon did you seek help after your most recent deployment?

- 1 Within the week after
- 2 Within 30 days
- 3 Over a month, but within 3 months,
- 4 Over 3 months, but within 6 months,
- 5 Over 6 months, but within 12 months,
- 6 More than 12 months after
- 8 [VOL] Don't know
- 9 [VOL] Refused

**[ASK R10d If "YES" TO R8g]**

R10d. Which of the following conditions were these visits related to? [READ CHOICES - SELECT ALL THAT APPLY]

- 1 PTSD
- 2 Depression
- 3 Anxiety
- 4 Emotions or nerves
- 5 Relationship difficulty

- 6 Alcohol or drug use
- 7 Sleep Problems
- 10 Other
- 8 [VOL] Don't Know
- 9 [VOL] Refused

**[ASK R10e If R10d="PTSD"]**

R10e. What type(s) of treatment did you receive for PTSD? [ READ CHOICES - SELECT ALL THAT APPLY]

- 1 Medication
- 2 Psychotherapy
- 3 Group Psychotherapy
- 4 Self-help group
- 5 Other \_\_\_\_\_
- 6 None
- 8 [VOL] Don't Know
- 9 [VOL] Refused

**[ASK R10f If R10d="PTSD" AND R10e IS NOT NONE/DK/REF]**

R10f. How much did this treatment help with PTSD? [READ CHOICES]

- 1 Made things a lot better
- 2 Made things somewhat better
- 3 Made no difference
- 4 Made things somewhat worse
- 5 Made things a lot worse
- 8 [VOL] Don't Know
- 9 [VOL] Refused

**[If R10d="PTSD" THEN SAY: 'Now thinking about all your visits for all conditions in the past year...']**

R11. Were any of these services provided by the military, Tricare and/or the V.A. (Veterans' Administration)

[NOTE: This includes referrals to other locations which were made and covered by the military, Tricare or V.A.]?

- 1 Yes
- 2 No
- 8 [VOL] Don't know
- 9 [VOL] Refused

**[READ IF R11 = 1]**

R11a. More specifically, were these services provided or covered by the military, Tricare or the VA?

- 1 Military/Tricare
- 2 VA
- 3 Military/Tricare and VA
- 8 [VOL] Don't know
- 9 [VOL] Refused

## S. DEMOGRAPHICS

This series of questions is for statistical purposes only, to help us analyze the results of the study.

S2. What is your current marital status? Are you: [PLEASE READ EACH CHOICE EXCEPT FOR "DON'T KNOW" OR REFUSED; **MULTIPLE ANSWERS ALLOWED**]

- 1 Married [GO TO S3]
- 2 Divorced
- 3 Separated
- 4 Widowed
- 5 Never been married
- 8 [VOL] Don't know
- 9 [VOL] Refused [GO TO S3]

S2a. Are you currently in a committed relationship, dating casually, or not seeing anyone?

- 1 committed relationship
- 2 dating casually
- 3 not seeing anyone
- 4 [VOL] Other [SPEC: \_\_\_\_\_]
- 8 [VOL] Don't know
- 9 [VOL] Refused

S3. Are you the parent or primary caretaker of any children who are under 18 years of age (whether they live with you or not)?

- 1 Yes
- 2 No
- 8 [VOL] Don't know
- 9 [VOL] Refused

IF YES TO S3 go to S3b, OTHERWISE GO TO S4

S3b. How many of these children are living with you currently?

\_\_\_\_\_ NUMBER  
[DO NOT INCLUDE A DON'T KNOW OR REFUSED CODE]

S4. What kind of health care coverage do you currently have to pay for your health care expenses? Are you covered by: [READ LIST AND SELECT ALL THAT APPLY]

- 1. Your civilian employer's healthcare plan
- 2. Your spouse or family member's civilian employer's plan
- 3. Your school's healthcare plan
- 4. Health insurance coverage you or your family pay for yourself
- 5. Medicare
- 6. Medicaid
- 7. Tri-care
- 8. Your spouse or family member's Tri-care, active duty or retired military healthcare coverage
- 9. the Veterans Administration (VA)
- 10 Some other kind of health care coverage [SPECIFY: \_\_\_\_\_]
- 11 or, do you have no health care insurance?
- 98 [VOL] Don't know
- 99 [VOL] Refused

[S8 REVISED ON 12-14-2009 AFTER 30 PILOT SURVEYS]

S8. What is the highest level of education or schooling you have completed?

[READ CHOICES IF NEEDED]

- 1 Never attended school
- 2 Kindergarten to 8th grade
- 3 Some high school (9th to 11th grade)
- 4 Technical Training (not including military training) but no HS diploma
- 5 High school equivalency (GED/Test-based diploma)
- 6 High school graduate (12th grade)
- 7 Technical Training (not including military training) and HS diploma
- 8 Some college
- 9 College Associates degree (2 year)
- 10 College graduate bachelor's (4-year)
- 11 Masters Degree
- 12 Doctorate
- 13 Other [Spec]
- 98 [VOL] Don't know
- 99 [VOL] Refused

S9. Do you rent your home or own your home? [IF "LIVING WITH FAMILY" PROBE: IS THE HOME YOU LIVE IN OWNED OR RENTED?]

- 1 Rent home
- 2 Own home (includes paying mortgage)
- 3 Neither
- 8 [VOL] Don't know
- 9 [VOL] Refused

S10. And now, what was your total household income last year from all sources before taxes? Include your income and income from anyone else living in your household. Do not tell me the amount. Please just tell me the answer that best represents your household income.

[IF HESITANT: Income data is important in analyzing health information we collect. For example, the information helps us learn whether people in one income group have particular difficulties accessing different services they might need.]

[F NECESSARY] Include income from jobs, investments, public assistance, unemployment insurance, social security, disability and pension funds, and all other sources?

Was it: [READ LETTER AND RANGE]

- 1 A, Less than or equal to \$40,000 [GO TO S10a]
- 2 B, More than \$40,000 to \$80,000 [GO TO S10b]
- 3 C, More than \$80,000 [GO TO S10c]
- 8 [VOL] Don't know [GO TO T1]
- 9 [VOL] Refused [GO TO T1]

[PROBE: Your best estimate is fine.]

S10a. Was that: [READ LETTER AND RANGE]

- 1 A, Less than or equal to \$20,000 or
- 2 B, More than \$20,000
- 8 [VOL] Don't know
- 9 [VOL] Refused

[GO TO S13]

S10b. Was that: [READ LETTER AND RANGE]

- 1 A, Less than or equal to \$60,000, or
- 2 B, More than \$60,000
- 8 [VOL] Don't know
- 9 [VOL] Refused

**[GO TO S13]**

S10c. Was that: [READ LETTER AND RANGE]

- 1 A, Less than or equal to \$100,000
- 2 B, More than \$100,000 to \$150,000, or
- 3 C, More than \$150,000
- 8 [VOL] Don't know
- 9 [VOL] Refused

## **T. Counseling/Conclusion**

T1. Thank you for completing the survey. Before I go, I have just a few more things to take care of, including getting some information so that we can send you the check for \$25 that we mentioned at the beginning of the survey. First, I would just like to give you our toll-free number in case you have any additional questions about the project or you need to get in touch with us later on.

T2. Would you like to write our number down? It is 1-888-735-0199.

- 1 Accepts number
- 2 Does not want the number

T2a. And, if you have any questions regarding your rights as a research participant, you may call the Columbia University Institutional Review Board. Would you like to write the number down? That number is 212-305-5883.

- 1 Accepts number
- 2 Does not want the number

T3. Now, I just need to verify your name and address so that we can send you your check. [INTERVIEWER: IF RESPONDENT ASKS YOU TO SEND THE MONEY TO A CHARITY, SAY: That is a good idea, but the study protocol requires that I send the check to the person who completes the survey. Then, of course, you can send it along to whatever charity you prefer.]

- 1 Will give address/accept check **[GO TO ADDRESS MODULE]**
- 2 Decline address/decline check

### **[IF DECLINE CHECK]**

T4. Then just let me verify your address. Having this information will make it easier to contact you in about a year to conduct the next follow-up interview or to send you information on the other parts of the study.

- 1 Will give address **[GO TO ADDRESS MODULE]**
- 2 Decline address

[ASK ALL]

T5. Email is sometimes a good way for us to keep in touch and inform you about the project.

[IF EMAIL WAS PROVIDED IN WAVE 1 ASK T5a – ELSE GO TO T5b:]

T5a. The email address you gave us before is [EMAIL FROM PRIOR WAVE]. Is that the email address we should use?

Yes [GO TO T6]

No [ASK T5b]

T5b. Do you have an email address that you are willing to share with us?

YES, WILL GIVE EMAIL **[CAPTURE EMAIL ADDRESS]**

NO – DO NOT HAVE EMAIL

REFUSED TO GIVE EMAIL

T5c. We have found that many study participants have more than one email address. Do you have another email address where we could contact you about the study? [PROBE: Ideally, we'd like to have an address besides the military (.mil) address in case you retire or leave the service.]

YES, WILL GIVE ADDITIONAL EMAIL [CAPTURE EMAIL ADDRESS]

NO - DO NOT HAVE ANOTHER EMAIL

REFUSED TO GIVE ANOTHER EMAIL

T6. Having the phone number of someone who always knows how to reach you will help us get in touch with you if you should move or change your phone number before our next upcoming survey.

[IF A CONTACT PERSON WAS PROVIDED IN PRIOR WAVE, ASK T6a, ELSE SKIP TO T6b]

T6a. The person you designated before is [NAME1 FROM WAVE 1]. Is that the best person to contact?

Yes [VERIFY PHONE NUMBER FROM PRIOR WAVE, THEN GO TO T7a]

No [ASK T6b]

T6b. Is there someone who always knows how to get in touch with you?

Yes, will give information **[ask for first & last name & phone]**

No, no contacts **[SKIP TO T8]**

Refused **[SKIP TO T8]**

[IF A 2<sup>ND</sup> CONTACT PERSON WAS PROVIDED IN PRIOR WAVE], ASK T7a, ELSE SKIP TO T7b]

T7a. The second person you designated before is [NAME2 FROM PRIOR WAVE]. Is that the next best person to contact if we have trouble reaching you?

Yes [VERIFY PHONE NUMBER FROM PRIOR WAVE, THEN GO TO T8]

No [ASK T7b]

T7b. Is there a second person who always knows how to get in touch with you?

Yes, will give information **[ask for first & last name & phone]**

No, no contacts **[SKIP TO T8]**

Refused

**[SKIP TO T8]**

Okay, we're almost done. I have just one more thing to take care of before I go.

T8. Some of the questions in this survey can be upsetting or stressful. Were any of the survey questions emotionally upsetting to you?

- 1 Yes **[ASK T9]**
- 2 No **[GO TO T10a]**

T9. Are you still feeling emotionally upset or are you okay now?

- 1 Still upset **[ASK T10]**
- 2 Feeling okay now **[GO TO T10a]**

T10. If you would like to talk to someone about how you are feeling, I can have someone call you. Would you like our on call counselor to call you?

- 1 Yes **[GO TO T11]**
- 2 No **[GO TO T10a]**

[IF K9c= "YES," ASK T10a – ELSE SKIP TO T16]

T10a. Earlier in the survey you mentioned having thoughts within the past 30 days that you would be better off dead or of hurting yourself in some way. If you would like to talk to someone about these thoughts, I can have someone call you. Would you like our on call counselor to call you?

- 1 Yes **[GO TO T11]**
- 2 No **[GO TO T16]**

T11. Do you need a counselor to get back to you (today/this evening) or can I have someone call you (tomorrow/Monday) during regular business hours?

- 1 Need someone to call today/tonight
- 2 Would like someone to call tomorrow/Monday
- 3 Would like some to call another day [spec]

T12. What is your name?

T12fn. RECORD first name \_\_\_\_\_

T12ln. RECORD last name \_\_\_\_\_

T12ph. What number should we call you back on? \_\_\_\_\_

T12st. And, where do you live? I need to provide the counselor with your name, address, and telephone number to be sure we are able to reach you. This information will only be used by the counselor to contact you.

RECORD street name and number \_\_\_\_\_

T12town. RECORD town \_\_\_\_\_

T12state. RECORD state \_\_\_\_\_

T12zip. RECORD zip code \_\_\_\_\_



T12co. RECORD any interviewer comments \_\_\_\_\_

Okay, I will have someone get back to you soon.

[NOTE TO INTERVIEWER: IF RESPONDENT WANTS TO TALK TO A DOCTOR TODAY/TOMORROW/MONDAY, NOTIFY YOUR SUPERVISOR NOW!]

[CATI – DISPLAY A NOTIFICATION SCREEN TO PROMPT SUPERVISOR FOR ANY COUNSELING REQUESTS]

**T13.** Another optional part of this research is a genetics study. The purpose of the study is to create a bank of genetic (DNA) samples of military personnel and then to look for genes which may be involved in resilience and/or risk for problems associated with deployment and combat-related stress, such as post-traumatic stress disorder (PTSD) and other psychological disorders.

Today, I'd just like to give you the key facts of the study so that you can decide whether you want to consider participating.

If you are willing to consider participating:

1. We would mail you a small kit which will allow you to provide a saliva (spit) sample for DNA analysis by the lab at the Uniformed Services of the University Health Sciences, as well as a short pencil and paper questionnaire.
2. All samples are stored and identified with a code number and all other identifying information is removed to keep the results confidential.
3. Abt SRBI will keep a separate file that links the saliva sample code number to your identity; no other organization will have access to this information and Abt SRBI will not know the lab results.
4. You can withdraw your sample at any time by simply contacting us.
5. You will not receive any results of the analysis of the DNA sample
6. Your DNA sample will not be used in other studies without your permission.

If you are willing, we will send you a kit through the mail that explains this portion of the study in more detail. In the kit, there will be a genetics consent form which you will need to read carefully to determine if you would like to participate. After reading the genetics consent form, if you have any questions concerning the study you can call us here at Abt SRBI.

If you decide to participate, we will ask that you sign the consent form and mail it and the completed questionnaire back to us here at Abt SRBI. The saliva sample will be sent to Uniformed Services of the University Health Sciences. Instructions for giving your official consent, completing the questionnaire, giving your saliva sample, and shipping materials will all be included in the kit.

You don't have to participate, but it would be a big help. All of the postage fees are pre-paid and we are offering \$50 for your help with this part of this study.

T13. Would you like to receive a kit and more information on this part of the study in the mail?

- 1 Yes, send me a kit and I will review and decide
- 2 No, do not send me a kit [GO TO T13a]

T13a. Can you tell me why you do not wish to consider participating in this part of the research?  
[NOTE OPEN END RESPONSE]

T16. We want to remind you that we will be calling again to follow-up on how you are doing about once a year. If you change your telephone number or address in the meantime, you can let us know about it by calling the toll free number I provided earlier. This information will be provided in the envelope with your check.

[RECORD CODE 2 ONLY IF PERSON SAYS NOT TO CALL AGAIN]

- 1 Continue [ASK T16a]
- 2 [VOL] Does not want to be called again [ASK T16b]

T16a. As a final note, the phone number we have on file for you is [phone]. Is this the best number to contact you?

1. Yes
2. No [CAPTURE NEW PHONE NUMBER]

T16b. Can you tell me why you do not want to be called to participate in this survey next year?

1. \_\_\_\_\_
8. [VOL] DK
9. [VOL] REF

Thank you for your participation in this survey. Have a great day/evening.

## CELL PHONE PROTOCOL

Some respondents will supply a phone number in response to the advance letters and they may turn out to be cell phones.

Update phone number needs to be available on the tipresp menu, and updating needs to be enabled in the script where indicated in the following questions.

---

**[CATI: ADD THESE QUESTIONS TO THE SCRIPT IMMEDIATELY AFTER THE RESPONDENT INTRODUCTION]**

P1. Is this number that I called you on a cell phone?

(If asked why: I just want to offer to call you on a land-line phone, or at a time when you are not driving if this is a cell phone)

Yes (GO TO P2)

No (SKIP TO A)

REFUSAL - SOFT (SOFT REFUSAL - THANK & END)

REFUSAL - HARD (HARD REFUSAL - THANK & END)

P2. Is there a land line where you would prefer me to call to conduct the interview?

Yes (UPDATE PHONE TO LAND LINE & SCHEDULE CB)

No, continue on cell phone

REFUSAL – SOFT (SOFT REFUSAL - THANK & END)

REFUSAL - HARD (HARD REFUSAL - THANK & END)

P3. Are you currently driving, or someplace else where it IS NOT safe to talk on your cell phone?

YES/CALL ME LATER (SCHEDULE CALLBACK)

No, respondent can talk now

REFUSAL – SOFT (SOFT REFUSAL - THANK & END)

REFUSAL - HARD (HARD REFUSAL - THANK & END)

P4. Is now a good time to talk?

**(INTERVIEWER: IF EVENINGS / WEEKENDS ARE BETTER BECAUSE RESPONDENT IS NOT CHARGED FOR CELL USAGE, SCHEDULE CALLBACK AND RECORD COMMENTS)**

Yes, now is fine (CONTINUE TO A1a)

No, another time is better (SCHEDULE CALLBACK & record comments about best call times)

REFUSAL – SOFT (SOFT REFUSAL - THANK & END)

REFUSAL - HARD (HARD REFUSAL - THANK & END)

ASK ALL

P5. Based on your phone number, we believe you are in the [TIME ZONE] time zone where it's now [LOCAL TIME] o'clock. Is that correct?

Yes [CONTINUE WITH MAIN SURVEY]

No [ASK P6]

Not sure [ASK P6]

Refused [ASK P6]

P6. Which time zone are you in currently? (This helps so that we don't call you too early or too late.)

Atlantic

Eastern

Central

Mountain

Pacific

Alaska

Hawaii

Other [SPEC]

Not sure

Refused

[CATI – UPDATE TIME ZONE IN SAMPLE MANAGEMENT SYSTEM AND ROUTE TO MAIN SURVEY]

## CATI LIST OF VARIABLES NEEDED FROM PRIOR WAVES SURVEY DATA

RNG Data Variables needed to conduct Wave 3 Survey:

[THIS WILL BE UPDATED]

1. Qkey (Study ID)
2. Most recent Phone number
3. Respondent Name
4. Date of Birth
5. Gender
6. Age
7. Most recent Address
8. Gave Email Address (Y/N)
9. Most recent email Address
10. Gave 1<sup>st</sup> contact name (Y/N)
11. Most recent 1<sup>st</sup> contact person name
12. Gave 1<sup>st</sup> contact phone (Y/N)
13. Most recent 1<sup>st</sup> contact person phone number
14. Gave 2<sup>nd</sup> contact name (Y/N)
15. Most recent 2<sup>nd</sup> contact person name
16. Gave 2<sup>nd</sup> contact phone (Y/N)
17. Most recent 2<sup>nd</sup> contact person phone number
18. Most recent Rank abbreviation
19. Most recent Rank Text
20. Month of prior survey
21. Year of prior survey
22. Had a "Worst non-deployment related Trauma" in prior survey (1=yes; 2=no)
23. Worst non-deployment related Trauma Selected in prior survey
24. Text for other non-deployment related Trauma in prior survey
25. Had a "Worst deployment related Trauma" in prior survey (1=yes; 2=no)
26. Worst deployment related Trauma Selected in prior survey
27. Text for other deployment related Trauma in prior survey
28. Respid from prior survey
29. Previous deployment dates (not sure we need this)